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A guiding rubric and usage manual for the doctoral supervisor and doctoral student in the discipline of statistics

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Abstract

Following the discussions documented by [3], guidelines were devised to support active early-career, emerging doctoral supervisors in Statistics in South Africa. These guidelines developed are incorporated into a guiding rubric and this associated usage manual. The rubric is not presented as a formal set of rules, but rather a dynamic document encouraging the growth of both the novice supervisor and the doctoral student. The rubric need not be used in its entirety either, since it is only intended to aid in the supervision process within the discipline of Statistics; it is not meant to be overwhelming or overbearing in the supervision process.

We present the current evolution of this guiding rubric, after discussions with, and feedback from, both novice and senior supervisors within South Africa over the period from 2022-2024. If the rubric is used, the conference paper [14] should be cited.

This document is compiled with the intention of improving the potential for emerging supervisors in Statistics to be appointed as primary supervisor, while allowing for the inclusion of senior academics as expert co-supervisors or mentors in the team. While the development of the doctoral student is the primary goal of this guiding rubric, the development of the novice supervisor is also important as a secondary goal, contributing to the sustainability of academia in Statistics.

Key words: Doctoral supervision, Guiding rubric, Statistics.

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1 Instructions for use

This manual is intended for use by the doctoral student and the supervisory team from the beginning of the doctoral journey, starting before registration, to the end of the journey at graduation. The sections below are meant as discussion points for the team continuously through the journey, updating each as the doctorate progresses. This aims to achieve growth in the student and emerging supervisor at every step of the process, as well as to ensure a holistic doctoral journey resulting in a properly trained doctoral graduate, and effective supervisor.

This manual has been designed according to the six sections identified in [3], and expanded upon in [14]. The authors welcome any and all feedback on its use, as it is intended to be a 'living' document, as far as possible, being updated when and where necessary. This is, of course, best illustrated by the turmoil caused by the sudden proliferation of the use of generative AI (GenAI) in education, something that was barely considered in the original research in [3] and [14].

A section on GenAI has been added to the guiding rubric, under Section 3, but because of the rapid evolution of this topic, this subsection will most likely constantly feel outdated.

2 Additional lists

Many items in this rubric guide have been labelled as [MOU], or 'Memorandum of Understanding' items. These items are compiled at the end of the manual into a list of items that could be incorporated into a Memorandum of Understanding between a research student and their supervision team at the institution of registration, should that institution not have an institutional MOU agreement that the team must sign. Some items in the rubric guide are also indicated as risks with an asterisk (*). These items are also compiled into a risk register at the end of the manual, for ease of reference. The risk register should be used as a critical reflection of the state of the doctorate at any stage.

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1. Statistics Identity (Crisis) Opportunities

The pre-registration phase of any postgraduate degree forms the foundation of the proposed degree and sets the stage for the future student-supervisor relationship. Utilising the pre-registration proposal will help pair committed and capable students with the appropriate supervisor team, generate enthusiasm and momentum within the team, and identify the required novelty of the research. The feasibility of such a process depends on the relevant institutions' regulations and the financial requirement of the students (von Maltiz et al., 2023). Following this section of the rubric could help mitigate some of the risk factors associated with the initial stages of a postgraduate degree and help align the study with the relevant institutional requirements.

On completion of this section of the rubric, students will have developed, amongst others, the following postgraduate attributes: entrepreneurial mindset, professionalism, responsibility, emotional intelligence, self-awareness.

Pre-registration research proposal		
Responsible parties: student and supervisor		
A pre-registration proposal allows for 1) attract an appropriate supervisor, and/or 2) apply for admission. This document also displays commitment to the PhD, so that only dedicated students are registered at an institution. • Determine whether or not a pre-registration research proposal is required by the institution. This process is not enforced - some supervisors and students are already familiar with each other, and this process will not be required. • Take note of funding deadlines. • Does your institution integrate this formally into the PhD journey i.e. officially registered as doctoral pre-registration? • Students and new supervisors should be aware that line managers do not assign students and topics to supervisors, but line managers are involved in the process of admission and work allocation. • An online (or other) writing course may be beneficial to consider for the student to help with writing and choosing a topic. • Acknowledge the risks of registering without a pre-registration proposal: 1) the student may not be fully committed to their studies; 2) early on, topics/supervisors may change; 3) it may take more time to build momentum in the research process.*		
Levels of achievement		
☐ Not considered ☐ Risks acknowledged	Partially considered and risks acknowledged	Fully considered and risks acknowledged

Background in mathematical and statistical sciences			
Responsible parties: student and supervisor			
It is important to make sure that students have level of statistical and mathematical knowled into a PhD study in Statistics. Be aware of your institution's and defor admission into the chosen doct It is generally recommended that a mainstream year in calculus and ling with a major in statistics, as well as (or equivalent RPL) of a statistical Honours with a Statistics major may if the Masters research is of an appropriate in the study is in any Mathematical mathematics requirements may be supervisor and student need to cla requirement if this is not set by the	department's rules toral programme. It least one near algebra, along is masters research nature is required. The propriate topic and statistics field, the enigher. The rify this		
Levels of achievement			
☐ Not fully acknowledged		☐ Fully ackno	wledged
Placement of rese	earch/degree within	Statistics and the	specific subfield
	esponsible parties: st		
The placement of the research within a subfinot to limit the work, but to ensure that the rebackground knowledge is met and that the a supervisors is chosen. Knowing the field also the purpose of the PhD. Determine the subfield before come doctoral research e.g. Applied Statis Mathematical Statistics, Risk Analys Research, Data Science, Biostatististiconometrics, Psychometrics or Metermine the subfield knowledge by the supervisory team. Acknowledge the statistical nature planned, and the research falls under all mathematical and statistical science is statistical of the research i	relevant necessary appropriate team of so helps to solidify mencement of istics, ysis, Operations cs or Biometry, lachine Learning. that may be needed of the PhD is ler the umbrella of iences, as long as		
Levels of achievement			
Subfields not identified	Subfields ar	e not clear yet	Subfields fully identified

Acknowledgment of purpose of a PhD		
Responsible parties: student and supervisor		
 Convey to the student the nature and general purpose of a PhD. Acknowledge that just because a student is admitted to a PhD doesn't mean that they have the capacity to complete a PhD. Acknowledge that PhDs are hard work and have to be earned through commitment. They are not the inevitable end to a process. Acknowledge that ending a PhD journey within a reasonable timeframe is possible with commitment. 		
Levels of achievement	All faces and except decades	
Not all items acknowledged	All items acknowledged	
Part-time v	rs full-time	
Responsible parties: studen	t and supervisor. MOU item.	
A decision should be made concerning part-time and full-time studies. Check if your institution considers both these options. Check your institution's rules regarding the minimum and maximum length of allowed studies under each option, as appropriate. Acknowledge the minimum time commitment required by the student for a PhD. From SAQA regulations, this is 360 credits or 3600 notional hours of work. For perspective, this is 450 full days of work or 900 half-days. Acknowledge the understanding that sometimes funding cannot be obtained for part-time students, or vice-versa. Discuss the age of the doctoral student and the effect of this on the timeline of the studies.		
Levels of achievement Not all items acknowledged	☐ All items acknowledged	

Initial topic discussion		
Responsible parties: student, supervisor, and line manager		
Whether this is the student's pre-registratio suggested by the supervisor, the feasibility be determined. Feasibility includes the cert novel contribution. Early-career supervisors should en African Statistics community to cl	of the topic should tainty of making a ngage with the South	
there is any uncertainty. Experts, be internationally, in the proposed fie be identified by the supervisor.	ooth in SA and	
The topic's current status in intern should be assessed for risk of bei others before the student and risk contribution to the field.	ng completed by	
Does the supervisor have capacity field for this topic? Acknowledge t supervisor may reach a point in th their input may be limited. [MOU]	the risk that a	
□ It is important for the student to a interest in the topic decided on. The main focus of the student for an a SA), so interest is important. Student pressured into working on a partic of interest to them, and should be topics/supervisors if this is the calannual review.	he study will be the average of 5 years (in ents need not be cular topic if it is not willing to change	
Major changes in topic should be than one year after first registration	on.	
 Acknowledge the risks associated in a topic: lack of motivation to co residency; personal priorities and change; mental and financial stres longer to complete. 	omplete; prolonging circumstances may ss if the study takes	
The student acknowledges to con issues promptly due to change of as lack of interest in a topic, lack of complete, prolonging registration priorities, mental and financial stre longer to complete.	circumstances, such of motivation to period, personal	
Levels of achievement	1	
Partial consideration of feasibility and student interest, and supervisor capacity. Risks not acknowledged.	Full consideration of feasibility, capacity and student interest, supervisor capacity NOT confirmed by line manager. Risks acknowledged.	Full consideration of feasibility, capacity and student interest, supervisor capacity confirmed by line manager. Risks acknowledged.
L	L	

Publication potential, and possible restrictions in terms of NDAs / IP			
Responsible parties: student and supervisor. MOU item.			
There should be discussion between the sustudent on the expected outcomes in terms from the PhD. Check on the institution's explicit the number of published or 'published to be created during the deg What are the expectations from the with regard to publications? Acknowledge Acknowledge Acknowledge Acknowledge Acknowledge There has been discussion on the expectations might have to be liming agreements reduce the potential to	rulings in terms of shable' papers that ree. He involved parties by		
Levels of achievement No consideration of publication requirements.	Institution requirem publication requiren considered. NDA/IP considered or not no	nents issues not	Institution requirements and publication requirements considered, and NDA/IP issues are understood by both the
			student and supervisory team.
	Creation of netw	rorks	
Responsible parties: student and supervisor			
At least within SA, field experts should be reproposed study so that they can indicate the provide quality control advice, co-supervision even assessment/evaluation. Supervisors contact experts in the field outside SA to fair proposed research to be at the cutting edge. While both the supervisor and student should be reproposed.	neir willingness to on if appropriate, or are encouraged to acilitate the e of the field.		
fact that networks of experts should be deraise the quality (and visibility) of the degree primary burden is on the supervisor to form Such networks can facilitate post-PhD resegraduate. The minimum effort required in the	veloped in order to be outputs, the in these networks. Parch for the new is area is to attempt		
to involve the South African Statis certain aspects of the study, name (if at all necessary), quality contro experts of the field at least with S. assessment. International academic involveme and may even be mandated by the panel of assessors.	ely in co-supervision I (ensuring that the A are involved), and nt is recommended,		

requirements for internal assessment from the or Students should also be of peers across SA. Supervisors should ens the local networks in the	pe aware of the institutional al and external supervision and utset. The encouraged to join networks are they are aware of (at least) are field of study that have and or are established during the		
Levels of achievement			1
□ No networks joined or established.	Networks established/ joined only for assessment, as mandated by the institution.	Partial networks established/joined for quality control, assessment, or peer support.	

2. Funding

The financial management and stability of the student potentially plays a crucial role in the successful completion of the degree. Discussions regarding funding should include the different options of registration (full-time and part-time), movement between the two, potential institutional and governmental funding structures, potential short-falls between funding and overall expenses can occur, and what the impact of such shortfalls can have on the completion times. Additional costs associated with conference attendance and publications should also be considered. Assistance with grant proposals should also be discussed and be seen as one of the outcomes strived for by the students.

On completing this section of the rubric, students will have developed the following graduate attributes: entrepreneurial mindset, ethical reasoning, professionalism, responsibility, financial management, digital literacy, critical thinking, written communication.

Part-time vs full-time decision-making process		
Responsible parties: student and supervisor. MOU item.		
Full-time students are more likely to be awarded university financial support, or even supported by projects under which there is funding for PhD students. Should funding received not be enough, options of teaching undergraduate courses, or tutoring should be discussed. With part-time PhD students (if the institution allows this), funding is usually less of an issue as they are often professionally full-time employed. Discuss this as appropriate. It is also possible that in the first year of study the student is full-time, but later gets a job and may or may not have to move to part-time studies. As this choice is made regarding financing, it must be understood that the length of study will be affected and must be discussed.		
Levels of achievement		
☐ Not all items discussed.	☐ All items acknowledged	
Funding needs and sources		
Responsible parties: student and supervisor.		
The funding needs and possible primary and secondary sources for a student need to be discussed early on. There should be a discussion on the amount, type, and		

to the full-time / part-ti that certain funding so and this should be take There will be a reduced funding for the PhD if i student and superviso for the degree. Students should be aw always able to fund stu over the duration of the profile their financial ne the future including the Both primary and secon should be identified. For should be discussed, and academic funding for a cources of funding sho primary sources are lire Take note that instituti "over-funding" or "doubt consider and abide by, institution should mon double-funding. Potential of fixed-term staff working on reseat may be internal funding.	tor the possibility of contracts available for junior rch should be discussed. There g for contract positions from the divisions within the institution.		
_	funding for fixed-term contract ents. Any retention policy on		
financed positions sho	uld be carefully considered.		
Levels of achievement	1	,	
☐ No funding is considered / no need for funding.	Funding needs are identified, but not sources.	Funding needs are identified, as well as primary sources, but no secondary sources are identified.	Funding needs are identified, and both primary and secondary sources.
	Applications for funding - usi	ng the "central resource" lis	t
	Responsible parties: s	tudent and supervisor.	
https://sites.google.co that should be consult funding, but this list is	list of possible resources at m/view/statsnetsa/funding ed for every PhD requiring not exhaustive, and more thematical sciences (such as		

the CoE-MaSS published opportunities) should be considered. National sources of funding should be considered as becoming more scarce, so these identified avenues are likely to be more productive. Supervisors and students that obtain funding from novel sources should make contact with StatSNetSA to include the source of funding on the centralised list if it may be considered a possible source of funding for later students/work.	
Levels of achievement	
Central list not consulted (or funding is not required)	Central list consulted; new sources published with StatSNetSA.
Grant-v	vriting
Responsible parties: s	tudent and supervisor.
Writing (successful) grants is an art. By the end of a PhD, the supervisor should ensure that the student, if they intend on moving into academia, is comfortable writing high-quality grant proposals in relation to their research. A student who is not staying in academia can also benefit from grant-writing skills as it teaches the ability to promote and explain one's research. The first exposure to this will be the application for initial funding (grant/bursary) for PhD studies, in which the supervisor should guide. Subsequent proposals should be improved continuously as the main body of research is built upon, so that in the event a call opens, the fine tuning to the call's specifics can easily be made. Note that one way to enrich your proposals is to link your work to a Sustainable Development Goal [https://sdgs.un.org/goals]. By the end of the PhD journey the student should be equipped to apply for research grants with less guidance.	
Levels of achievement No funding is needed and grant-writing is not a requirement. No funding is needed, but grant-writing will be practised.	☐ The student may be partially responsible for developing and submitting grant proposals. ☐ The student will be able to develop and submit their own grant proposals after the PhD, and is aware of any applicable SDGs.

NRF rubrics for grant-writing			
Responsible parties: student and supervisor.			
In addition to generic grants, NRF Thuhthuka grants are specifically available to PhD students who are employed as academic staff permanently or on a 3 year fixed term contract. The main component of any proposal is whether it is aligned to the call, within budget (of funder) and also of course the scientific merit. It is also beneficial if the proposal can indicate previously peer-reviewed work of the team that aligns with the proposal. Funders are also positively influenced if there is evidence of co-funding, and student supervision in the work packages of the proposal. In proposal-writing the supervisor and student should clearly motivate the novelty of the research and the contribution of each team member. The supervisor should mentor the student to complete such an application successfully. It is beneficial to the outcome of a proposal if the young PhD gets the draft reviewed by a senior academic, particularly with regards outcomes, budget parity and rubric used by the assessment panel. Discuss the applicable NRF rubric with the student available on the NRF website (grant type specifics should be taken into account as well): 1) Proposal; Scientific merit (rationale, approach, methodology, scientific & ethical logistics and technical feasibility) 2) Track record of applicant; Past research (contributions to knowledge production); ability of the applicant to do the research proposed. 3) Equity of applicant (Race/gender) and Equity of students supervised (+ M and D degrees) (In South Africa this is considered - take note of it) 4) Collaboration; international, national and institutional (appropriateness; roles clearly indicated); in the proposed research, and this should be explicit. 5) Impact of the proposed research on the field and its wider impact in society.			
Levels of achievement			
No funding is needed and funding applications are not a requirement.	☐ NRF rubrics have been consulted and discussed.		
Finalisation	of funding		
Responsible parties: student and supervisor.			
Special attention should be paid to the finalisation of funding and payment into the university account. This item should be			

continuously reviewed during the PhD. Once the funding award letter arrives, one needs to be vigilant about administration details with regards to release and receiving of funds.			
There will be differences concerning the type of funding (e.g. bursary, released to the student, versus a grant, ring-fenced to an entity). It may be necessary to indicate to finance that funding be ring-fenced for a purpose.			
Annual reporting of funding will have to be completed, so flows of money (as well as research outcomes) should be well documented. The student is responsible for reporting to funders when notified, and should always involve the supervisor.			
(Current) level of achievement			
No funding is needed - university accounts will be paid privately, but are not yet finalised.	Funding adminis acknowledged b reporting not yet	out payments and	Funding administration and reporting complete; university accounts paid.

3. The Thesis Document

The successful completion and submission of the thesis document is the tangible end goal of a doctoral degree. Initiating discussions pertaining to this document in the pre-proposal phase and consistently continuing its development through the whole process will help the student to better navigate the requirements of the degree. Included in these requirements are the advantage and disadvantages between a full thesis and a thesis by publication, the inclusion of external (to the department) supervisors, expected contributions by all parties, and the general ethical and integrity obligations associated with the research process as captured in the Singapore Statement on Research Integrity (Resnik & Shamoo, 2011). The relevant institutional rules and consequences regarding misconduct (e.g. plagiarism and misrepresentation of data and result engineering) should be clearly understood by both the student and the supervisor(s). There should also be an agreement on the utilisation of AI and other large language models (LLMs) during the generation of knowledge and final write-up.

A pivotal aspect of the student and supervisor(s) relationship is the discussion and agreement regarding feedback on draft chapters and publications. Both parties should agree on submission and feedback timelines, while making allowances for delays.

The administrative role of the supervisor for the selection of appropriate external examiners and the institutional title registration should be done with circumspection to avoid negative repercussions on the student.

On completing this section of the rubric, students will have developed the following graduate attributes: critical thinking, written communication, digital literacy, responsibility, emotional intelligence, and self-awareness.

Second discussion on topic		
Responsible parties: student and supervisor.		
The topic for the proposal (post-registration) can come from the supervisor or from the student but should be developed together for the title registration document / post-registration proposal document and any proposal for ethical clearance. Check institutional requirements for title registration, proposal submission and ethics requirements and processes.		
Consider co-supervisors and industry links for student-and-staff research teams. Industry and literature reviews are good sources to help identify projects and gaps within the literature.		
Supervisor administration documents contribution: The expectations and role of the supervisory team and student should be clarified during the process of creating the title registration document / post-registration proposal document. The responsibility sharing of this task will not necessarily		

remain the same allocation as it w - the supervisor will probably have these documents at first, since the transitioning from Masters and is processes. As the PhD progresses should fall on the student's should At this stage the students are ence reading and researching journals, and participate in informal email e supervisors to exchange ideas.	to help more on e student is new to these s, more of this work lers. ouraged to keep practise freewriting,		
Levels of achievement			
The topic and proposal for any needed title registration or ethical clearance documentation are not in place yet, and the supervisory team's role is not quantified in the creation of these documents.	is defined. The proposal for a	ny needed title rethical clearance on are in	The topic and proposal for any needed title registration or ethical clearance documentation are complete.
Institutional research mandate	and the four principle	es of the Singapore S	Statement on Research Integrity
R	Responsible parties: st	tudent and superviso	or.
The institution's research mandate should be a cknowledged. Additionally, there should be acknowledged. Additionally there should be acknowledged. Accountability in the conduct of the professional courtesy Good stewardship of research Acknowledgement of implications of Research Misconduct: The supervisors and students must discussion about research and sci in terms of fabrication, falsification	cour institution's stration process, cuments, the format rding the hal co-supervisors, appointment of ssion of the final e importance of f adhering to this he institution's own * nent of the (2010), which is a conduct among ding principles are: The research arch and Scientific st have an initial ientific misconduct		

ChatGPT. The student must be made aware of the serious consequences of the misconduct, and the supervisors have the responsibility to guide the student throughout the whole process. Always familiarise yourself with your institution's internal policies regarding the registration process, the MOU, the post-registration documents, the format of the thesis, the regulations regarding the appointment of internal and external co-supervisors, publications (where and how), the appointment of external examiners and the submission of the final product. Do not underestimate the importance of knowing these policies. The risk of adhering to this guiding rubric while not knowing the institution's own policies should be acknowledged. * TurnItln Reports: Departmental and/or institutional regulations on plagiarism (and self-plagiarism) need to be reviewed and adhered to. If there is no formal institutional regulation, for novice supervisors we recommend that the report should not indicate more than 2% from any one source, and ideally less than 20% similarity overall. Ensure that there are no blatantly plagiarised sections. The Al-detection from tools such as TurnItln should not be used as a definitive Al detection mechanism (it is possible that Al use is not detected, and also possible that Al use is not detected, and also possible that Al use is not detected, and also possible that Al use is not rectly flagged). The use (and misuse) of generative Al is discussed in more detail below. Self-plagiarising (or uncited copying of) work that was previously examined may be more serious than self-plagiarising one's own publications that make up the PhD, and this should not be taken lightly. The student's work that has already been published or examined should be cited appropriately.	
Levels of achievement	
☐ Not all items discussed	☐ All items acknowledged
	datalo un utabanato un
Ethical clearance ar	d title registration
Responsible parties: st	udent and supervisor.
Processes of the institution for the relevant ethical clearances; including data collection procedures, etc. should be discussed. The supervisor should help the student to navigate the relevant ethics approval process at their institution and/or other relevant institutions.	

During the discussion of choosing a topic and developing the title registration document / post-registration proposal document, the relevant ethics associated with the project must be discussed. This includes human, animal and data (whether open source or not) ethics, both data collected/sourced and data created. It will form part of the literature review of the students to determine the ethics relevant to their projects. All students must acknowledge ethical risks associated with their projects even if there are no ethical clearances required. There is the potential for ethical liability or risk in any sort of data cownership or analysis, so the implications of not having clearance from the institution, the possibility may exist that the ethics proposal will need to be created or updated later in the project's life, as the project or institutional policies change. Note that ethical clearance can not be applied for after the research or data collection has been started. The format of title registration (no examiners at this stage) and length of the post-registration proposal document will depend on the requirements set out by your university and/or departmental postgraduate research or administration committee. The formum for feedback within the department, for example, a department research seminars bould be discussed. Each university and department run their postgraduate research programme uniquely. It is strongly suggested that the student participate in (departmental) research seminars by presenting their dices or progress. This will build the public speaking confidence of the student, encourage the student to understand their work on the level Where they can convey it to their peers, and present the topic (and its feasibility) for discussion within the department that can result in additional ideas and support from the supervisor's peers. Current) Level of achievement Title registration and ethical clearance documentation is in been presented at department lavel. departmental level.		•
associated with their projects even if there are no ethical clearances required. There is the potential for ethical liability or risk in any sort of data ownership or analysis, so the implications of not having clearance from the institution needs to be carefully considered as a risk.* More than this, if there is no ethical clearance currently required for this type of study at the institution, the possibility may exist that the ethics proposal will need to be created or updated later in the projects life, as the project or institutional policies change. Note that ethical clearance can not be applied for after the research or data collection has been started. The format of title registration (no examiners at this stage) and length of the post-registration proposal document will depend on the requirements set out by your university and/or departmental postgraduate research or administration committee. The format for feedback within the department, for example, a department research seminar should be discussed. Each university and department run their postgraduate research seminars hould be discussed. Each university and department run their postgraduate research seminars by presenting their ideas or progress. This will build the public speaking confidence of the student, encourage the student to understand their work on the level where they can convey it to their peers, and present the topic (and its feasibility) for discussion within the department that can result in additional ideas and support from the supervisor's peers. Current) Level of achievement Title registration and ethical clearance documentation has not documentation is in documentation is complete but has not been prosented at project may or may not institution, and the been presented at project may or may not institution, and the project has not been presented at project may or may not institution, and the	developing the title registration document / post-registration proposal document, the relevant ethics associated with the project must be discussed. This includes human, animal and data (whether open source or not) ethics, both data collected/sourced and data created. It will form part of the literature review of the students to determine the ethics	
currently required for this type of study at the institution, the possibility may exist that the ethics proposal will need to be created or updated later in the project's life, as the project or institutional policies change. Note that ethical clearance can not be applied for after the research or data collection has been started. The format of title registration (no examiners at this stage) and length of the post-registration proposal document will depend on the requirements set out by your university and/or departmental postgraduate research or administration committee. The forum for feedback within the department, for example, a department research seminar should be discussed. Each university and department run their postgraduate research programme uniquely. It is strongly suggested that the student participate in (departmental) research seminars by presenting their ideas or progress. This will build the public speaking confidence of the student, encourage the student to understand their work on the level where they can convey it to their peers, and present the topic (and its feasibility) for discussion within the department that can result in additional ideas and support from the supervisor's peers. (Current) Level of achievement Title registration and ethical clearance documentation has not been considered yet, and the project has not been processed; the project may or may not been processed; the project may or may not institution, and the	associated with their projects even if there are no ethical clearances required. There is the potential for ethical liability or risk in any sort of data ownership or analysis, so the implications of not having clearance from the institution needs to be carefully considered	
The format of title registration (no examiners at this stage) and length of the post-registration proposal document will depend on the requirements set out by your university and/or departmental postgraduate research or administration committee. The forum for feedback within the department, for example, a department research seminar should be discussed. Each university and department run their postgraduate research programme uniquely. It is strongly suggested that the student participate in (departmental) research seminars by presenting their ideas or progress. This will build the public speaking confidence of the student, encourage the student to understand their work on the level where they can convey it to their peers, and present the topic (and its feasibility) for discussion within the department that can result in additional ideas and support from the supervisor's peers. (Current) Level of achievement Title registration and ethical clearance documentation has not been considered yet, and the project has not been processed; the project may or may not been processed by the institution, and the	currently required for this type of study at the institution, the possibility may exist that the ethics proposal will need to be created or updated later in the project's life, as the project or institutional policies change. Note that ethical clearance can not be applied for <i>after</i> the research or data collection has	
example, a department research seminar should be discussed. Each university and department run their postgraduate research programme uniquely. It is strongly suggested that the student participate in (departmental) research seminars by presenting their ideas or progress. This will build the public speaking confidence of the student, encourage the student to understand their work on the level where they can convey it to their peers, and present the topic (and its feasibility) for discussion within the department that can result in additional ideas and support from the supervisor's peers.	☐ The format of title registration (no examiners at this stage) and length of the post-registration proposal document will depend on the requirements set out by your university and/or departmental postgraduate	
☐ Title registration and ethical clearance documentation has not been considered yet, and the project has not been presented at ☐ Title registration and ethical clearance documentation is in development; the project may or may not been processed; the have been presented at ☐ Title registration and ethical clearance documentation is complete but has not been processed; the project may or may not institution, and the ☐ Title registration and ethical clearance documentation is complete but has not been processed; the project may or may not institution, and the ☐ Title registration and ethical clearance documentation is complete but has not been processed; the project may or may not institution, and the ☐ Title registration and ethical clearance documentation is complete but has not been processed; the project may or may not institution, and the ☐ Title registration and ethical clearance documentation is complete but has not been processed; the project may or may not institution, and the ☐ Title registration and ethical clearance documentation is complete but has not been processed; the project may or may not institution, and the ☐ Title registration and ethical clearance documentation is complete but has not been processed; the form the first project may or may not been processed by the institution, and the ☐ Title registration and ethical clearance documentation is complete but has not been processed; the ☐ Title registration and ethical clearance documentation is complete but has not been processed; the ☐ Title registration and ethical clearance documentation is not project may or may not institution and ethical clearance documentation is not project may or may not institution and ethical clearance documentation is not project may or may not institution and ethical clearance documentation is not project may or may not institution and ethical clearance documentation is not project may or may not institution and ethical clearance documentation is not project may or may not institution and project may or may not i	example, a department research seminar should be discussed. Each university and department run their postgraduate research programme uniquely. It is strongly suggested that the student participate in (departmental) research seminars by presenting their ideas or progress. This will build the public speaking confidence of the student, encourage the student to understand their work on the level where they can convey it to their peers, and present the topic (and its feasibility) for discussion within the department that can result in additional ideas and support from the	
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	ethical clearance ethical clearance documentation has not been considered yet, and the project has not been presented at ethical clearance documentation is in development; the project may or may not have been presented at	ethical clearance documentation is complete but has not been processed; the project may or may not ethical clearance documentation is complete and has been processed by the institution, and the

		departmental level.	presented at departmental level.	
Contribution proportions				
	Responsible parties: studer	nt and supervisor. MOU item.		
contribution proportion strictly given by the ins agreement on where the more should be made the work becomes sold including author order. Papers should not be swithout the supervisor the IP belongs to the ir. The authorship of each discussed and agreed and the student. The firstudent, and/or ordere content, methodology programming. In some	ent and publications of the included in the MOU. al rules on thesis/paper as. Where the rules are not estitution, at least a general as supervisor will contribute (e.g. in the beginning vs when ely the student's responsibility), on publications. Submitted for publication as and student's involvement, as a stitution. In publication must be upon by the supervisory team art author should ideally be the development and a instances, the supervisory as be more than that of the			
should follow some ge planning of and contrib the work (e.g. the concrevising of a draft of the final approval of the ve important that in total degree), the contribute more than that of the should also indicate the Statement on Research (https://wcrif.org/) on should take responsibility publications, funding a representations of their should include all thos applicable authorship of their should include authorship of their should include all thos applicable authorship of their should be all their sho	authorship states "Researchers lity for their contributions to all applications, reports and other ir research. Lists of authors e and only those who meet			

Levels of achievement			
Supervisory team's contributions, and paper authorship hierarchy are not yet defined.	Supervisory team's contribution or paper authorship hierarchy are not yet defined.		Supervisory team's contribution and paper authorship hierarchy are clearly defined.
	The Use of G	enerative Al	
Respo	onsible parties: student	and supervisor. MO	U item.
The exponential expansion of the use of G education and research, cannot be ignored stance or policy on Al that the institution here acknowledged and adhered to. Regardless of whether or not the formal policy (or an informal policy acknowledgement, the student are to ensure that the use of generating the context of research integrity, agenerative Al can create content information, made-up references, prejudiced viewpoints, amongst of Generative Al, however, can be exfor the research process, and the tools should be discussed. This is correcting language and gramma and summarising topical peer-revitools for generating, testing and code, amongst others. It is vital that the student is aware every time Al is used in the research including code, that it ge rewritten in the student's own woodefended by the student, verified unbiased by the student, and, if no	d, regardless of the has. e of Al in research is institution has a cy) for and supervisor need five Al is discussed in noting that that contains false and biased or other things. Attremely beneficial are of different Al includes tools for ar, tools for finding viewed literature, and commenting on the of the fact that arch process, the enerates needs to be rds, understood and as true and		
the research.	in the thesis as having been used in the production of the research.		
Levels of achievement			
Institutional AI policies have not been acknowledged. Generative AI advantages and disadvantages have not been discussed. The supervisor cannot clearly see where and when Generative AI has been used in the dissertation.	discussed in terms of research integrity, the supervisor cannot		Institutional AI policies are acknowledged and adhered to and the use of Generative AI has been discussed, with a focus on research integrity. The use of Generative AI is transparent and well referenced in the research product, where necessary.

The state of the s		
Thesis vs. separate publications		
Responsible parties: st	udent and supervisor.	
Publication-based thesis (PBT) can result in shorter completion times, lower rates of drop-out, and higher levels of productivity throughout the degree. It addresses the institution's publication subsidy requirements, and it has the immediate benefit of accountability and quality assurance by external reviewers before the examination process, even though the thesis will still be examined as a single product. The published works from the thesis may be available and read more widely than a monograph, and can increase the national and international profile of the student and the supervisors much faster (Frick 2016).		
The supervisor should discuss the difference between a traditional thesis as a monograph compared to a publication-based thesis (PBT) with the students (Krumsvick 2022, Hodgson 2017). The PBT usually consists of 3 or more papers, written during the doctoral study period. The final decision will be driven by factors such as full-time vs part-time, contact vs distance learning, the type of supervisory model, the curriculum, structure of the programme, funding requirements, the student's abilities, partnership opportunities, expected outcomes, and institutional guidelines.		
Acknowledge that a thesis with a unified narrative is still required for PhDs completed by publication. For the PBT, publications will have to be accompanied by an introduction to and a summary of the papers included. It can be in a "sandwich" format where the papers are bounded by the introduction and conclusion, or in the Scandinavian format consisting of a summary thesis and the publications in the appendix.		
It remains the supervisor's responsibility to guide the student towards ensuring that the PhD's purpose is addressed in one or more of the publications in a PBT and that the overarching research contribution is appropriate and highlighted in the final submission for examination.		
Acknowledge that one form (thesis/publications) might transform into another during the PhD journey. Discussions on the format of the thesis should be done at the start of the research process. This decision will form part of the expected deliverables and outcomes of the student. The student and supervisor should plan the steps required to complete a certain format. However, it may happen that the format of the thesis could change as the study progresses and that adjustments would have to be		

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	made for a move from a PBT to a PBT-monograph or monograph the final product must still adhere to the institution and the core nature PhD. There should be understanding the team will advise on the journals the for PhD publication outputs. The publication costs should also be choices of journals. Data providers and co-researchers cited on published papers - it is in all parties are aware of the require roleplayers. It is recommended that the correst the supervisor of the thesis. The I belongs to the institution, so if the remain at the institution there may movement of IP if the student is the author.	esis. At the core, the the requirements of and purpose of the ant the supervisory nat will be targeted payment of discussed, given the s may need to be apportant to ensure ements by sponding author be P of the paper e student does not y be implications for			
Ī	Levels of achievement				
	Unified PhD narrative, and the terms of conduct and authorship for PhD publications are not yet defined.	and authorship	terms of conduct	PhD narrative is unified, and terms of conduct and authorship for PhD publications are clearly defined.	
		Drafts and	Feedback		-
	F	Responsible parties: s	tudent and superviso	or.	
Part of the initial discussions during the first title registration and post-registration proposal development must be how the different drafts of the proposal, publications and pre-examination drafts of the thesis will be reviewed and assessed by the relevant supervisors. The format of a draft thesis/paper/chapter should be discussed. The format of feedback on drafts by the supervisors and students respectively must also be discussed. The turn-around time on these reviews/assessments by the supervisors and students respectively must be discussed.					
-	Levels of achievement		ı		-
	Draft and feedback format, as well a turnaround time are not yet consider.		_	back format, as well as review ne are clearly defined.	

Data and document backup procedures and version-control processes				
F	Responsible parties: s	tudent and superviso	or.	
Discussion and agreement on a d management structure with the sto ensure the student does not lost Version control must, at a minimula automatic. A new document could dated on a weekly basis, for exam Review your institution's requirem management and storage. Loss of represents a substantial risk. *	tudent is essential se information. Im, be manual if not d be copied over and uple. Ents regarding data			
Levels of achievement				
Data and document backup processes are not in place, nor are version control processes.	Data and docu processes are version control	in place, without	Data and document backup processes are in place, as well as a form of version control	
Final Title Registration				
	Responsible parties: supervisor.			
Roughly six months before the final submitthe final title registration must be complete timeline is not imposed by the institution). The supervisory team and studen the final title of the thesis. The supervisory team must also sexternal examiners for each indivexaminers should be selected with consideration with which the cosselected. The number of external examiners distribution nationally and international be determined by the institution, be institution does not mandate it, we least one international external examiners.	ed (if a different t must agree upon suggest appropriate dual thesis. These h the same care and upervisor was s and their tionally will typically out even if the e recommend at			
Levels of achievement				
Title registration documents (with a yet completed.	ssessors) are not		on documents (with assessors) are I submitted to the institution.	

Final Document Preparation			
Responsible parties: student, supervisor, and line manager.			
☐ It is the responsibility of the stude corrections to the thesis, after exarecommended by the assessors. commit to make these changes, or manager cannot support the awar. ☐ A report to the examiners/postgraclearly indicating how the comme should be included in this process.	amination, as The student must otherwise the line rding of the degree. aduate committee onts were dealt with		
Levels of achievement			
Student has not completed corrections, and has not compiled a correction report.	Student has corcorrections, but a correction rep	has not compiled	Student has completed corrections, compiled a correction report, and the supervisor has submitted the corrected thesis and report to the line manager.

4.

5. Student-supervisor relationship

The student-supervisor relationship is closely related to the student and supervisor growth (Section 6). A fractious relationship could have a detrimental impact on the successful completion of the degree. Clear expectations, boundaries and limitations set out by both the student and the supervisor(s) should ensure a good working relationship. Any misunderstanding should be addressed quickly and professionally, with guidelines on escalating grievances being available to both parties.

Supervisor capacity				
Responsible parties: supervisor				
It is important to be clear about any limitations in the supervisor's workload capacity or field of expertise. The possibility of a co-supervisor should also be discussed with the student if it has not been already. The risk of the supervisor not having enough time to attend to another student should be discussed.* There may be institutional limits to the number of students a supervisor may supervise concurrently. Early-career supervisors are advised to take on at least one supervisory role initially. Supervision experience is important immediately after PhD graduation. Depending on the supervisor, one may want to bring in more supervision roles in a staggered manner as experience builds. It is advised to not supervise colleagues unless there is already a good working relationship. In any case, clear boundaries should be established, making sure that the student will be able to defer to the supervisory decisions of the supervisory team, even if the student happens to be in a more senior role in the department, for example.				
Levels of achievement				
Not all items have been discussed or acknowledged.	All items have been discussed and acknowledged.			
PhD Process timeline completion				
Responsible parties: student, supervisor, and co-supervisor. MOU item.				
The timeline is a standard item in a PhD proposal, but should be adapted with input from the supervisory team, using their experience in order to ensure the timeline is practical and feasible. The proposed timeline is suitably updated.				

 ☐ The student should be aware of the registration as well as the time it in become an independent researche. ☐ Early-career supervisors will find it a full-time PhD in the SAQA-manda should be taken into account when timeline. ☐ There should be a balance between being realistic when constructing the state of the st	may require to er. t difficult to produce ated 3 years. This n generating a		
Levels of achievement			
Proposal timeline is not yet updated.	Timeline may be needs revising concerns.	=	☐ Timeline is updated and strikes a reasonable balance between feasibility and specificity.
Relati	onship between prim	ary supervisor and st	tudent
Respon	nsible parties: studen	t and supervisor. MOI	U item.
Responsible parties: student While the MOU should observe that supervision arrangements vary, it nevertheless assumes a 'main supervisor' ('an identified single point of contact'), with the 'team' potentially including other supervisors, research staff in the subject and departmental advisers to postgraduate students, one of whom may be a 'second supervisor'. Any notion of substantial and even equally shared coor joint supervision with supervisors of equal supervisory (if not institutional) status should be agreed upon, although it is most likely that the institution will require the identification of a main supervisor. This person will be responsible for the progression and administration problem-solving within the PhD. The supervisor should inform the student on what they can expect from them in terms of meetings and feedback. The supervisors should also take into consideration full-time vs part-time and distance students, the power relations between student and supervisors, culture and other matters of diversity and their roles as a knowledge creator/facilitator for the student. The supervisors must realise they may have a preferred type of supervisory model they would like to implement with all students, but that it can and will need some adjustments over the course of an individual student's degree. These models include the apprenticeship model (e.g. Szanton and Manyika,			

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and group/cohort supervision (e.g. Parker 2009, Samuel and Vithal, 2011, Harman, 2002). The correct model for your context should be driven by the	
curriculum, structure of the programme, funding, the student in context, partnership opportunities and the	
expected outcome (Cross and Backhouse, 2014).	
The institutional MOU should be adhered to. All parties must acknowledge the institutional MOU	
between student and supervisor if there is such a document. Take note that if the institutional MOU	
does not cover how editing of the MOU is moderated,	
this should be discussed. If the institution does not have an MOU it is recommended one is compiled by the department for internal use at least.	
 Right from the start of the PhD, the supervisor and	
student should come to an agreement on how much	
typesetting and non-scientific editing will be done by the supervisory team. This can differ substantially	
across different supervision teams, so it is vital to	
have this discussed early on. The student's needs should also be taken into account, with	
acknowledgement that different students may require	
different levels of editing help. We recommend at	
least some guiding support is provided by the	
supervisor. Take note that, if a very high level of support is provided by the supervisor, the goal is that	
the student eventually grows to be capable of proper	
academic writing by the end of their degree. It may be	
beneficial to show your student an example of the	
intensity of your feedback or an explanation of your	
intensity (or lack thereof), so that this does not come as a surprise.	
Your institution may provide writing workshops, or	
facilities to edit language of research outputs.	
Alternatively, if funding is available, your institution may have a list of qualified editors that can be hired	
for editing.	
The student must commit to making the content and	
editorial changes that are recommended by the supervisory team.	
It is recommended that as far as possible, grievances	
be discussed within the student-supervisory team. If this is not possible, procedures for non-compliance of	
the institution should be followed. Procedures for	
non-compliance are generally listed in the institution's	
regulations, but if this is not the case, it is important	
to understand that the usual procedure is to take the	
matter up with the departmental head if needed, and	
progressively higher up, if needed. These procedures must be understood and acknowledged by the	
student.	

 Extraneous problems do often arise during the life of a PhD study. While these are seldom under the responsibility of the supervisor, it is vital that open lines of communication exist between the student and some advisor be it a predetermined mentor, member of the department, or a counsellor, AND the supervisor to a limited extent - it is important that the supervision team is aware of any extraneous problems that may be hindering any major progress on the PhD, but it is not necessarily their responsibility to solve these extraneous problems. The risk that the PhD's duration may have to be increased because of both internal and external circumstances needs to be acknowledged.* 			
Levels of achievement for estab	lishing student-supervisor relation	onship	
The relationship between student and supervisor is not yet well defined, and the institutional MOU has not been signed.	The institutional MOU has been signed. Formal relationship facets are not defined for type of relationship, the level of editing help, and the possible influence of extraneous problems.	The institutional MOU has been signed. Formal relationship facets are defined for type of relationship, the level of editing help, but not for the possible influence of extraneous problems.	The institutional MOU has been signed. Formal relationship facets are defined for type of relationship, the level of editing help, and the possible influence of extraneous problems.
Levels of achievement for grieva	ance procedures		
The student is not aware of grievance and grievance escalation procedures.		☐ The student is fully award escalation procedures.	e of grievance and grievance
Relationship bety	ween co-supervisor(s) and stude	ent, and between supervisor and	d co-supervisor(s)
Re	sponsible parties: student, super	visor, and co-supervisor. MOU it	em.
(for example, mentorsh teams) and disadvanta and collation of works) The supervisor networl source co-supervisors	ing discussion and planning co-supervisors' provision of ding on draft chapters, ds being articulated to both		

of bringing in a co-supervisor to enrich the PhD study, especially when this guiding rubric is being used by an early-career main supervisor. Ensure that the supervisory team meets and discusses the strengths and weaknesses of the members of the team, and for which topics each supervisory team member can be engaged with.	
The student-co-supervisor communication dimension should be discussed.	
It should also be acknowledged that in some unfortunate circumstances, co-supervisors may have to take over the role as main supervisor for continuity purposes (retirement, etc.), thus transparent communication at all stages is advised. Unforeseen circumstances e.g. health, maternity leave, resignations, may require a change in role of supervisor and co-supervisor. A sustainable supervisory team should be put together as far as possible.	
The co-supervisor(s) and student must acknowledge their type of relationship (mentioned in the student-supervisor relationship above) and how they plan to work together. The relationship between student and supervisor may be different to that of the relationship between student and co-supervisor.	
Contributions must be defined in advance by the supervisory team, but can be adapted by the supervisory team across articles from the PhD or simply across the duration of the PhD. The co-supervisory team may require certain outputs in terms of publications. These should be discussed before finalisation of the supervisory team, in order to manage expectations.	
Co-supervision should not replace the supervisor's role - this role is intended to assist in the supervisory team, rather than to distribute workload. It is important to determine whether the co-supervisors are qualified enough, and if they are making enough of a contribution to the education of the PhD student. In some institutions there may be regulations that require the supervisor to motivate the appointment of (external) co-supervisors. Some institutions may also require their staff to be offered affiliate positions before they allow their staff to act as external co-supervisors at those institutions.	
The supervisor and student must acknowledge that the co-supervisor is not usually brought in to take on a major portion of the workload; co-supervisors may be brought in to raise the quality of the research output.	
The full supervisory team must acknowledge that the requirements for a PhD in Statistics will require	

statistical contribution to the releve Publications will therefore first and statistical nature. Papers in other relegated in priority. Of course, it reference (impact-wise) to publish in non-statistical science journals, but the statistical contribution needs to be acknowled and the thesis.	d foremost be of a fields will be may be better atistically-oriented al methodological		
Levels of achievement			
and co-supervisor is not yet well and co-supervisor defined, in terms of type of relationship, communication relationship, communication		n terms of type of	The relationship between student and co-supervisor is clearly defined in terms of type of relationship, communication protocols, and contribution extent.
	Mental health rule	es of engagement	
Responsible p	parties: student, super	visor, and co-supervis	sor. MOU item.
An agreement needs to be made between the student and their supervisors as to the extent to which the supervisors can individually be approached should the student develop any mental health issues during the course of the degree. The risks associated with not having such an agreement need to be acknowledged.* In order to reduce the risk of mental health problems becoming a major issue during the PhD journey, the institution's mental health care pathways need to be identified.*			
Levels of achievement			
The risks associated with possible n problems, and the formal pathways to problems, have not been discussed.	to deal with these	The risks associated with possible mental health problems, and the formal pathways to deal with these problems, have been discussed clearly.	
Acknowledgement of differences in culture, language, and ages/generations			
Responsible p	parties: student, super	visor, and co-supervis	sor. MOU item.
Differences between the supervisors and the student in terms of culture, language, gender and age, for example, need to be acknowledged, in that certain barriers need to be overcome in			

order for the supervisory team and student well. The risk that these barriers may le miscommunications need to be a lt is encouraged that all team mer sensitivity towards these different students to air any discomfort. Differences should be discussed or well.	ead to cknowledged.* mbers develop ces, encouraging			
Levels of achievement				
☐ The risks associated with team differences are not yet acknowledged.		The risks associated with team differences are yet acknowledged, and the doctoral team has committed to dealing with the implications of these differences openly but with sensitivity.		
	Communicat	tion protocol		
Responsible p	parties: student, super	visor, and co-supervis	sor. MOU item.	
Forms of engagement (formal vs informal e-mailing, messaging) need to be discussed The "rules of engagement" - when supervisors and student can be ended be discussed. Some institutions may require your follow formal communication charmanagement systems or e-mails) A two-week turnaround on moderation work is recommended. POPIA act should be acknowledged sharing communications and inforestudent's family, SRC members, etc.	d and agreed upon. , where and how the ngaged with should as supervisor to annels (via online . ately-sized pieces of ed in terms of not remation with			
Levels of achievement				
Rules of engagement (and communication channels) have not been established, and/or the turnaround time is not adhered to. POPIA has not been considered.	been establish	n channels) have ed, and POPIA is turnaround time	Rules of engagement (and communication channels) have been established, POPIA is adhered to, and turnaround time is strictly adhered to.	
Meeting protocol				
Responsible parties: student, supervisor, and co-supervisor. MOU item.			or. MOU item.	
Meeting protocol should be discussed at the Meetings provide students the platform to				

their work orally, which is especially import the over-use of GenAl; supervisors can use opportunities to check that their student ca as their own. The student does the speaking at The agendas are set by the studer After the meeting, the student pro the meeting via email. POPIA is acknowledged in terms of meetings with student family, SRC	the meetings as an defend their work meetings. nt. vides a summary of		
Levels of achievement			
Student is not vocal at the meetings, nor do they set the agenda or provide summaries of the meetings. POPIA may not have been acknowledged (or adhered to).	meetings, nor do they set the agenda or provide summaries of the meetings. POPIA may not have been acknowledged (or meetings. POPIA has been meetings. POPIA has been meetings. POPIA has been		Student are vocal at the meetings, they set the agenda or provide summaries of the meetings. POPIA has been acknowledged.
Progress reports			
Respoi	nsible parties: student	t and supervisor. MOI	U item.
Institutions and bursars will require progress reports from the students and supervisory team. It is important to know how and when these are completed at your particular institution. The student and the supervisory team have been made aware of the progress report requirements of the institution. Progress reports are completed on time.			
Levels of achievement			
The institution's progress report requirements are unknown and/or progress reports are not completed on time.			s progress report requirements are hered to, with progress reports being

6. Standardised Assessment

The supervision guiding rubric in this section most closely resembles an assessment rubric that academics will be familiar with. However, this rubric does not need to be used in the assessment of the PhD. This assessment section is included so that, right from the start of the PhD study, both the supervisor and student are aware of how PhDs in Statistics are typically assessed from the beginning of the doctoral programme. Moreover, this section could be used as a marking guide for examiners if rubrics are not provided for the assessment of a particular thesis in Statistics.

For each subsection, a level of achievement will be chosen. If *any* category is judged as "**Unacceptable**", the thesis should not be handed in for assessment until corrections have been made. The same goes for any category judged as having "**Major corrections**" necessary. This is to avoid the worst-case scenario that an examiner suggests a failure rather than a major revision.

If this rubric section is being used for examination purposes, if two or more "Major corrections" are indicated, then an overall "Major corrections" decision should be made. Otherwise, a "Minor corrections" decision will suffice. It will be extremely rare that a pass without corrections will be indicated, as the grading of a research work often incorporates an element of holistic grading, and often assessors will require clarification on certain items even if corrections do not seem of utmost importance. That said, now that there is a standardised assessment rubric available to the Statistics community in South Africa, a rubric that can be given to students and supervisors in advance of even starting the PhD, we hope that, in future, we will see examples of unconditional passes, and thus the rubric makes allowance for that.

We note that, as the use of generative AI is growing, the need for an oral defence of the PhD research is becoming more apparent. This is not yet considered as part of the assessment of the PhD in South Africa, but will be added as an additional section in this guiding rubric as more South African institutions make the move towards formally implementing this oral defence. We acknowledge that this is a very complicated process, and as such, significant research should be undertaken in establishing a guide for its implementation in postgraduate Statistics research.

Focal question or hypothesis		
Responsible parties for all subsections: student, supervisor, co-supervisor, assessors		
Are the chosen title/subject, scope, and objectives of the research thesis clearly defined, contextualised, and scientifically founded?		
Note that this does not cover whether or not objectives were met, but merely whether or not the objectives establish for the reader the clear scientific direction that the research is taking.		

Levels of achievement				
Unacceptable. The title doesn't align properly with the scope or context of the study, or the objectives are not well defined or scientifically based.	Major corrections. While the title seems appropriate, given the study context, the objectives are not well defined or scientifically based, or are too numerous or too few for the PhD context.	Minor corrections. Title seems appropriate, but some objectives are not appropriate, or not appropriately scientific. Rephrasing or simple reworking is in order.	Satisfactory/Accomplis hed. The chosen title/subject, scope, and objectives of the research thesis are clearly defined, contextualised, and scientifically founded.	
	Rationale/	motivation		
		T		
☐ What will the original c☐ Do the research finding knowledge base of the	och field properly identified? ontribution of the research be? gs make a contribution to the discipline? ereof, suitable for publication?			
Levels of achievement				
Unacceptable. The gap in the field is not identified, and/or the contribution is not original nor a proper contribution to the field. Publishing is in doubt, or publications from the research are possibly only in predatory/poorly reviewed journals.	Major corrections. The gap in the field is not properly identified, or the contribution is not well defended as being original or a proper contribution to the field. The work is publishable, with a little effort.	Minor corrections. The gap in the research field is identified, and the work seems novel, but the contribution needs to be better defended. The work is indeed publishable as is, or has already been published in peer-reviewed journals.	Satisfactory/Accomplis hed. The gap in the research field is identified, the work is novel, and the contribution to the field is clear. The work has already been submitted for publication in acceptable peer-reviewed journals/books.	
Scholarly context				
and application of the I	ent knowledge, interpretation relevant literature? ature been taken out of context s must be avoided at all costs.			

Levels of achievement			
Unacceptable. The study has not reviewed a wide enough selection of relevant, respected, and recent literature on the topic. There may have been an element of "cherry-picking" literature to support the study, rather than covering literature that might criticise or invalidate any part of the student's work.	Major corrections. The study has not reviewed a wide enough selection of relevant, respected, and recent literature on the topic. There is literature that exists that seems to argue against the student's study, but the student's argument could be the stronger one. However, this literature is not engaged with. This criticism must be addressed.	Minor corrections. There may be some recent or relevant literature that needs to be incorporated into the study, simply to strengthen the study's argument. Alternatively, some research may have been accidentally misinterpreted.	Satisfactory/Accomplis hed. The study has reviewed a wide enough selection of relevant, respected, and recent literature on the topic. This literature is correctly interpreted and applied in the current study.
	Approach/n	nethodology	
introduced? In this guide, the recomstatistics, there is an element.	neearch methodology applied or neendation is that, for a PhD in mphasis placed on novel e, this section is of the utmost		
Levels of achievement			
Unacceptable. The study does not incorporate methodology appropriate to answering the research questions or meeting the research objectives. Alternatively, the methods are completely lacking in novelty - they have been used to answer the same problems before, in similar contexts, and with similar results.	Major corrections. There may be some methodology that is inappropriate, or possibly some important methods that are missing in the student's work; these methods may even produce results different to those found by the student. These should be incorporated and their results should be interpreted together with the results that exist already.	Minor corrections. There may be some methodology that is slightly inappropriate, however, with a proper additional defence, this can be overlooked. There may also be some additional methodology that would probably support the student's argument. These methods should be added for the sake of completeness.	Satisfactory/Accomplis hed. Methodology is novel, appropriate, and extensive; it is well informed by the reviewed literature, and there are no obvious omissions of methods that might counter the student's arguments.

	Application and/or sime	ulation; Use of evidence	
methodology, techniqu	n of appropriate research es and analysis demonstrated? applied studies there may be ts for publications.		
Levels of achievement			
Unacceptable. The methodology introduced is not utilised correctly. Alternatively, the application or simulation does not align with the research objectives.	Major corrections. The methodology introduced, although aligned with the research objectives, is not utilised correctly (or some methods are not used).	Minor corrections. The methodology introduced is utilised correctly, and aligned with the research objectives. Perhaps some methodological comparisons with literature need to be further explored.	Satisfactory/Accomplis hed. The methodology introduced is utilised correctly and aligns well with the research objectives, even if the results were not expected.
	Interpretation/dis	cussion of results	
personal insight) in ter methodology and resu	ts? presented and evaluated as		
Levels of achievement			
Unacceptable. Results are not interpreted correctly, or are not evaluated within the context of the established literature Alternatively, the results do not align with the research objectives.	Major corrections. There are minor errors in the interpretation of results, and/or there needs to be additional contextualising of the novelty within the current research field.	Minor corrections. The results seem to be correctly interpreted, but perhaps not fully, and there may be some comparisons with existing literature that need to be further explored.	Satisfactory/Accomplis hed. The results seem to be correctly and fully interpreted, and they are well placed within (or even against) the existing field of research.
	Research ins	ight/foresight	
further research as we	understanding of the possible Il as the limitations of the ogths and weaknesses of the	ight, foresight	

Levels of achievement			
Unacceptable. Neither possible future research, nor the strengths of the research, nor the limitations (or weaknesses) are identified clearly.	Major corrections. Perhaps one of the future research / strengths / weaknesses of the study are completely missing, or major work needs to be completed in all three areas.	Minor corrections. While all areas are included, some work needs to be added on future research / strengths / weaknesses of the study.	Satisfactory/Accomplis hed. Areas of future research are identified, and the strengths and limitations (or weaknesses) are clearly stated
	Abstract, Introduct	ion, and Conclusion	
contribution of the thes The abstract should be The student should und should be able to have heading towards at the that often examiners so	n pair fully encapsulate the		
Levels of achievement			
Unacceptable. The abstract does not cover every aspect of the monograph (rationale, question, method, and result/conclusion), and the introduction and conclusion don't fully encapsulate the study.	Major corrections. Either the abstract or the introduction-conclusion pair do not fully summarise the study.	Minor corrections. The abstract is sufficient, but either the introduction does not make the goal of the study clear, or the conclusion does not wrap the dissertation up properly.	Satisfactory/Accomplis hed. The abstract, as well as the introduction-conclusion pair, fully encapsulate the contribution of the thesis (including the strengths, limitations and further research areas as mentioned before).
	Writing mechan	ics; Organisation	
chapters coherent units It is important to make 'golden thread' tying all together. For example,	esearch objectives, and are the s? sure that there seems to be a the sections of the thesis		

	hat the methodology is linked at the results are compared literature.		
Levels of achievement			
Unacceptable. Chapters seem isolated and independent, with the common 'golden thread' of the study not evident everywhere.	Major corrections. Chapters or topics seem isolated, but with some revision could be better threaded together.	Minor corrections. With a little effort in linking sections together, the 'golden thread' of the research could be pulled through the entire study.	Satisfactory/Accomplis hed. The study flows well from the objectives, through the literature and methodology, to the results and conclusion. There is evidence of a 'golden thread' throughout, where sections are well linked together.
	Grammar, sp	elling, usage	
☐ Is the dissertation free and stylistic (consister	of linguistic, typographical, cy) errors?		
Levels of achievement			
Unacceptable. The thesis was not professionally edited. There are 100+ linguistic, typographical and/or consistency errors (not including referencing errors).	Major corrections. The thesis was not professionally edited. There are dozens of linguistic, typographical and/or consistency errors (not including referencing errors)	Minor corrections. The thesis was probably professionally edited, but a number of linguistic and/or consistency errors still remain. There should be an absolute minimum number of typographical errors.	Satisfactory/Accomplis hed. The thesis looks to have been professionally edited, with only a handful of linguistic, typographical and/or consistency errors.
	Clarity, style	e, readability	
systematically, logically coherent manner? Are tables/lists, illustration representations satisfat formal conventions of Are abbreviations, table appendices, etc., consi	s and/or graphic actory and in accordance with statistical scholarship? es, lists, notations, algorithms,		

Levels of achievement			
Unacceptable. Sectioning is not coherent, and some major work is needed on tables/lists, illustration and graphics to ensure that they are consistently up to the standard of formal statistical scholarship. Some tables/illustrations may even be missing.	Major corrections. Sectioning is not coherent, and some major work is needed on tables/lists, illustration and graphics to ensure that they are consistently up to the standard of formal statistical scholarship.	Minor corrections. Sectioning is coherent, but some minor work is needed on tables/lists, illustration and graphics to ensure that they are all up to the standard of formal statistical scholarship.	Satisfactory/Accomplis hed. Sectioning is coherent and, tables/lists, illustrations and graphics are consistent and up to the standard of formal statistical scholarship.
	Referencing	յ, plagiarism	
manner, and are the for bibliography correct; ar important and recent s references provided? H conducted?	nd, does it include the most ources? Are all needed las a plagiarism report been plagiarism is a serious issue, to reference where necessary, entifying these missing		
Levels of achievement			
Unacceptable. Referencing is not consistent (10+ inconsistencies); OR more than 5 unlisted references or listed references not used in-text; OR a plagiarism report is not included; OR the plagiarism report seems to indicate a suspicious level of replication (generally >15%, without defence); OR important sources and/or recent papers are not included in the study.	Major corrections. Referencing is inconsistent (10+ inconsistencies, or maybe one or two references missing in the list, and/or one or two references listed but not referred to). A plagiarism report is included, but seems to indicate a suspicious level of replication (generally >15%, without defence). Some important sources and/or recent papers are not included in the study.	Minor corrections. Referencing is consistent and according to a named standard. All used references are listed, and all listed references are used. A plagiarism report is included, and the results are within acceptable bounds (generally <15%, but could be more with good reason). The most important sources have been included, but perhaps some newer sources need to be included.	Satisfactory/Accomplis hed. Referencing is consistent and according to a named standard. All used references are listed, and all listed references are used. A plagiarism report is included, and the results are within acceptable bounds (generally <15%, but could be more with good reason). The most important, as well as good recent sources have been included.

7. Supervisor and Student Growth

The successful completion of a PhD degree should result in the growth of both the student and the supervisor - both on academic and professional levels. This can be accelerated by attending conferences, joining local and international research groups, learned societies and being available for co-supervision, editor and peer-reviewing duties and serving as external examiners.

	Networks 6	established	
Respo	onsible parties: superv	visor, co-supervisor, st	udent
Supervisor growth requires the ear to join research groups and work of collaborators. This helps in sha about supervision, problems encount supervision, ethical issues involved and sharing of diverse research extra the early-career supervisor to develope experienced supervisor in Statistic collaboration is also necessitated most experienced supervisors in the are either retired or past retiremer. If supervision networks cannot be senior academics, at least providing for early-career supervisors to join for sharing of supervision styles are	on building a team aring new ideas puntered in ed in supervision, expertise, assisting elop into an es. The need for by the fact that the field of Statistics at age. I built with these and an opportunity a together will allow		
Levels of achievement No research network(s) established, and supervisor peer network not consulted.	Supervisor pee consulted, but network(s) form	no research	Research network(s) established and supervisor peer network consulted.
	Student taking p	part in networks	
	Responsible p	arties: student	
 ☐ The students should also be exported the form of research groups, collar co-supervision of Honours/Master ☐ While the supervisory team may be introducing the student to network should continue the engagement networks as appropriate. ☐ Effort should be made to keep the collaborators. ☐ PhD students should also consider other young statisticians through 	boration, ers students, etc. e integral in ks, young PhDs within these e flame burning with		

Statistical Association.			
Levels of achievement			
Student is not taking part in networks.	peer networks	aging in some of the and research with collaborators.	Student is actively engaging in peer networks and research groups and/or with collaborators, wherever connections were made.
Using netv	works for external a	ssessment and arti	icle review
	Responsible par	ties: supervisor	
☐ The networks established should yourself, the supervisor, available Ms and PhDs. ☐ In order to start reviewing articles ensure that your profile page on your website is updated, 2) after submit publication, check for feedback ejournal inviting you to review, and a few of your favourite journals' would possibly register to be a review.	for journals: 1) our university itting articles for mails from the 3) consider going to ebsites to see if you		
Levels of achievement		-	
Supervisor not using networks to expand their academic citizenship; neither in external assessment nor for article reviewing.			Supervisor is using networks to expand their academic citizenship; both in external assessment and for article reviewing.
Co	onference attendan	ce and presentation	18
Respo	onsible parties: superv	risor, co-supervisor, st	udent
Conferences present great opport researchers as it provides a platfor knowledge, new ideas, different villatest trends and techniques. It of for networking and collaboration, international scale. For young, aspursuing a doctorate, attending ar conference can also contribute to growth and development, especial also attends, at least initially. Learning to budget for conference important skill that needs to be demany conferences have funding a	orm for sharing ewpoints and the fers an opportunity particularly on an oiring researchers and presenting at a their professional lly if the supervisor es is also an eveloped. Note that		

early-career attendees (e.g. IBC, IS Supervisors should be willing to ir etiquette. It is important to attend presentations as possible, even if not understand much of what is b important to learn how to engage	npart conference as many the student does eing presented. It is		
Levels of achievement			
Student has not made an effort to attend and present at any conference.	attend a confer	ade some effort to ence, but may not , or did not engage ference.	Student has made substantial effort to attend and present at one conference per year at least, and has properly engaged in conference presentations.
	Diverse external	examiner panel	
R	esponsible parties: su	pervisor, co-superviso	or
□ The networks established by a supurilding up a diverse panel of externation of the search of the search of the search of the search of the supervisor and of the postgraduate office of the interest of the search of the interest of the search of the sea	ernal examiners for the PhD topic can be at are wise the ful, and/or a bad student. Institution of the same examiners is (or within a mmend that this tice is to maintain a nat have been used		
Levels of achievement			
Diverse examiner panel not selected using their "regular" examiners for the	-	examiners are	niner panel has been selected. The knowledgeable in the topic, and have not in successive years.
[MOLI] Christant arrows	Looming Outcom	a and Cuadrata	wikuta akilla aammlatian
IMOOJ Student growth -	Learning Outcome	s and Graduate att	ribute skills completion
Respo	onsible parties: superv	risor, co-supervisor, st	udent
It may be helpful for a supervisor previous theses in a similar resear students from one of the supervisor	rch field, or from		

encourage the initial development Are there specific outcomes that is supervisor wish to accomplish ow research, or skills that either wish should be identified early on in the should be allowed to grow as the These outcomes should be listed Most institutions will have a list of for PhD degrees. Students and supervisors.	ooth the student and er the course of the to develop? These partnership, and research continues. in this guide.		
Levels of achievement	•		
Neither the personal nor the institution's graduate attributes have been met, and the student has not looked at existing theses in the preparation of their own thesis.	The institution's gra attributes are met, has not been prope existing theses and completed their go graduate attributes	but the student erly exposed to d/or has not als as far as	Student has been exposed to previous theses, has listed and completed personal graduate attributes, and the institution's graduate attributes have been met.
If student is an academic staff m	ember: [MOU] Student co-supervision of hor	-	ating for modules, internally, and
Respo	onsible parties: supervisor	r, co-supervisor, st	udent
While in pursuit of a PhD, specifically if the become a full time academic, having the op their academic CV is vital. Being able to but during the process of a PhD rather than onlocompletion of a PhD can also aid in fast trace. This can start with internally mode well as co-supervising Honours/M being included as co-researchers. contributes to their increased charpermanent academic post after or but also contributes to their experdevelopment which is beneficial to well. Mentorship opportunities (from the co-supervisor or another staff mendiscussed. It is important to caref balance between academic duties especially with full-time staff.	poportunity to build an academic CV y starting after the ocking promotion. Perating modules as ISC students or just This not only naces of obtaining a during their PhD, ience and othe department as the supervisor, mber) should be utily consider the		
Levels of achievement			
Staff member student has not been recruited to moderate modules and help in the supervision of other pre-PhD	Staff member studer recruited in a limited moderate modules supervision of other	ed manner to s or help in the	Staff member student has been recruited to moderate modules and help in the supervision of other pre-PhD postgraduate

postgraduate s	tudents.	students.
ent growth - Partici	pant in the funding	applications
onsible parties: superv	/isor, co-supervisor, st	tudent
e, patience and ally be fruitful but a skill that should completes their uate attribute by the ding applications.		
unding	Student has ful applications.	lly participated in completing funding
	ent growth - Partici consible parties: superviee, patience and ally be fruitful but a skill that should completes their uate attribute by the ding applications.	ally be fruitful but a skill that should completes their uate attribute by the ding applications. Gunding

8. Memorandum of Understanding

The following items have been extracted from the Guiding Rubric for quick reference, and for compilation into a personalised Memorandum of Understanding:

Comments by Student	Comments by Supervisor
Provide evidence that the superviso	r has capacity and expertise in the field for this topic. If this is
esearch field for the supervisor, di	scuss how involved the supervisor (and/or co-supervisors) will
eading the discussion, and how this l	eadership will evolve.
Comments by Supervisor	
	his research? Are there possible restrictions in terms of NDAs / IF
	his research? Are there possible restrictions in terms of NDAs / IF
	his research? Are there possible restrictions in terms of NDAs / IF
What is the publication potential for t	
What is the publication potential for t	
What is the publication potential for t	
What is the publication potential for t	
What is the publication potential for t Comments by Student	Comments by Supervisor
What is the publication potential for t	Comments by Supervisor
What is the publication potential for t Comments by Student	Comments by Supervisor

Comments by Student	Comments by Supervisor
Allenda e e e ale e e e e e e e e e e e e e e	
what are the responsibilities for the me document and publications of the resea	embers of the supervisory team in terms of contribution to the rch?
Comments by Supervisor	
	e main components of this PhD study, that has been agreed u
Provide the (very general) timeline for the student and the supervisory team.	e main components of this PhD study, that has been agreed u
	e main components of this PhD study, that has been agreed u
the student and the supervisory team.	e main components of this PhD study, that has been agreed u
the student and the supervisory team.	e main components of this PhD study, that has been agreed u
the student and the supervisory team.	e main components of this PhD study, that has been agreed u
the student and the supervisory team.	e main components of this PhD study, that has been agreed u
the student and the supervisory team.	e main components of this PhD study, that has been agreed u
the student and the supervisory team. Timeline by Student How often will the student and the sup	ervisory team communicate? How often will work be require
the student and the supervisory team. Timeline by Student How often will the student and the sup	
the student and the supervisory team. Timeline by Student How often will the student and the sup	ervisory team communicate? How often will work be require
Timeline by Student How often will the student and the supthe student and after what time period s	ervisory team communicate? How often will work be require
Timeline by Student How often will the student and the supthe student and after what time period s	ervisory team communicate? How often will work be require
Timeline by Student How often will the student and the supthe student and after what time period s	ervisory team communicate? How often will work be require

Comments by Supervisor	
Mhat is the protocol to follow if the s	tudent develops mental health issues during the course of the deg
what is the protocol to follow if the s	tudent develops mental health issues during the course of the deg
Comments by Supervisor	
dentify differences between the sup	ervisors and the student in terms of culture, language, gender and
for example, that might lead to bre	ervisors and the student in terms of culture, language, gender and akdowns in communication. Lay down 'ground rules' that will hel
for example, that might lead to bre	akdowns in communication. Lay down 'ground rules' that will hel
for example, that might lead to bre supervisory team and student to com	akdowns in communication. Lay down 'ground rules' that will hel nmunicate well.
for example, that might lead to bre	akdowns in communication. Lay down 'ground rules' that will hel
for example, that might lead to bre supervisory team and student to com	akdowns in communication. Lay down 'ground rules' that will hel nmunicate well.
for example, that might lead to bre supervisory team and student to com	akdowns in communication. Lay down 'ground rules' that will hel nmunicate well.
for example, that might lead to bre supervisory team and student to com	akdowns in communication. Lay down 'ground rules' that will hel nmunicate well.
for example, that might lead to bre supervisory team and student to com	akdowns in communication. Lay down 'ground rules' that will hel nmunicate well.
for example, that might lead to bre supervisory team and student to com	akdowns in communication. Lay down 'ground rules' that will hel nmunicate well.
for example, that might lead to bre supervisory team and student to com Comments by Student	akdowns in communication. Lay down 'ground rules' that will helymunicate well. Comments by Supervisor
for example, that might lead to bre supervisory team and student to com Comments by Student Institutions and bursars will require	akdowns in communication. Lay down 'ground rules' that will hely municate well. Comments by Supervisor progress reports from the students and supervisory team. How
for example, that might lead to bre supervisory team and student to com Comments by Student Institutions and bursars will require	akdowns in communication. Lay down 'ground rules' that will hely municate well. Comments by Supervisor progress reports from the students and supervisory team. How
for example, that might lead to bre supervisory team and student to com Comments by Student Institutions and bursars will require when these are completed at your pa	akdowns in communication. Lay down 'ground rules' that will hely municate well. Comments by Supervisor progress reports from the students and supervisory team. How
for example, that might lead to bre supervisory team and student to com Comments by Student Institutions and bursars will require	akdowns in communication. Lay down 'ground rules' that will hely municate well. Comments by Supervisor progress reports from the students and supervisory team. How
for example, that might lead to bre supervisory team and student to com Comments by Student Institutions and bursars will require when these are completed at your pa	akdowns in communication. Lay down 'ground rules' that will hely municate well. Comments by Supervisor progress reports from the students and supervisory team. How

Comments by Student	Comments by Supervisor
ones the student intend on moving into	o academia after the PhD? If so, discuss mentorship of the st
and the opportunity to, for example,	moderate lower-level postgraduate research and undergra
nodules in order to strengthen their CV.	
Comments by Student	Comments by Supervisor
	I
Signatures:	
Student	Supervisor
Name:	Name:
Date: Signature:	Date: Signature:

9. Risk Register

The following risks are described and discussed in the guiding rubric above. The student-supervisor(s) team should acknowledge each of the risks below at the start of the doctoral journey.

Acknowledge the risks of registering without a pre-registration proposal: 1) the student may not be fully committed to their studies; 2) early on, topics/supervisors may change; 3) it may take more time to build momentum in the research process.
There should be discussion on the risk that these expectations might have to be limited if any NDAs / IP agreements reduce the potential to publish work.
Always familiarise yourself with your institution's internal policies regarding the registration process, the MOU, the post-registration documents, the format of the thesis, the regulations regarding the appointment of internal and external co-supervisors, publications (where and how), the appointment of external examiners and the submission of the final product. Do not underestimate the importance of knowing these policies. The risk of adhering to this guiding rubric while not knowing the institution's own policies should be acknowledged.
All students must acknowledge ethical risks associated with their projects even if there are no ethical clearances required. There is the potential for ethical liability or risk in any sort of data ownership or analysis, so the implications of not having clearance from the institution needs to be carefully considered as a risk.
Review your institution's requirements regarding data management and storage. Loss of work and data represents a substantial risk.
The risk of the supervisor not having enough time to attend to an additional student should be discussed.
The risk that the PhD's duration may have to be increased because of both internal and external circumstances needs to be acknowledged
An agreement needs to be made between the student and their supervisors as to the extent to which the supervisors can individually be approached should the student develop any mental health issues during the course of the degree. The risks associated with not having such an agreement need to be acknowledged.
In order to reduce the risk of mental health problems becoming a major issue during the PhD journey, the institution's mental health care pathways need to be identified.
Differences between the supervisors and the student in terms of culture, language, gender and age, for example, need to be acknowledged, in that certain barriers need to be overcome in order for the supervisory team and student to communicate well. The risk that these barriers may lead to miscommunications need to be acknowledged.
It should be noted that plagiarism is a serious issue, and if the student fails to reference where necessary, the responsibility of identifying these missing references falls on the main supervisor.

10. Version Control

0.1.0 - First completed guide sent in for publication