Chapter 10: Postgraduate Co-supervision Conundrums: Complementarity and Contradiction

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Abstract

This chapter focuses on three doctoral students' experiences of co-supervision. We utilise a triadic dialectical coherence (TDC) framework to examine complementarity, contradictions and conundrums inherent in co-supervision arrangements. Methodologically, the study integrates *currere* and complicated conversation within a Janus three-dimensional perspective that emphasises temporal reflection and lived experience. This approach illuminates how doctoral students navigate their co-supervision journeys across past, present, and future, exercising agency and resilience, while negotiating tensions between philosophical, ethical, and institutional demands. Our research shows that co-supervision between doctoral students and co-supervisors leads to both positive outcomes and obstacles. Different supervision approaches provide comprehensive academic and emotional support, while inconsistent supervision approaches lead to cognitive development and personal independence. Consistent challenges in coordination and power dynamics fuel intellectual development. The research shows that productive co-supervision depends on organisational frameworks and human skills that manage rather than eliminate these tensions. The three-headed approach inspired by Janus offers insights for transforming supervision challenges into opportunities for growth in inter-disciplinary research environments.

Keywords: Co-supervision, *Currere*, Doctoral students, Triadic analysis

Introduction

The number of PhDs produced by the 26 higher education institutions (HEIs) in South Africa has been a vexing point for the state, leading to a proclamation by the state for HEIs to produce by the year 2030, more than 100 PhDs per million inhabitants (DHET 2019). The 2030 target presupposes the capacity of higher education institutions to increase the supervision workload of academics successfully and, more importantly, that an expanded supervision workload will not compromise the quality and rigour of doctoral education. In this chapter, we argue that quality and rigour can be maintained if research supervision is pursued creatively. The single supervisor-student approach remains the dominant model in doctoral education (Lee 2017). However, co-supervision can neutralise some of the negative effects of the single student-single supervisor model (McKenna & Van Schalkwyk 2023; Wilmot 2021).

Co-supervision represents an evolutionary shift in how we think and supervise research (Brown, Geesa & McConnel 2020). The nature of supervision is comparable to the Roman deity Janus, whose two faces always look in opposite directions. One face, representing the decades-old traditional, dyadic interaction between a single supervisor and a student, has formed the basis of postgraduate research training for many decades (Ruano-Borbalan 2020). While the other face, the engagement of two or more supervisors guiding a research student is an emerging response to the increasingly complicated and multidisciplinary nature of current research (Mazzocchi 2019). It is evident that a collegial and negotiated approach is supplementing the decades-old traditional and hierarchical mode of transferring knowledge. The shift to multidisciplinary studies reveals the shortcomings of the traditional approach. However, these are not competing positions, and both are necessary and useful depending on the nature of the study. Both represent one of many approaches to research supervision, such as solution-based doctoral research supervision (Walsh *et al.* 2018), group supervision (Stynes & Pathak 2022), writing supervision (Lee & Murray 2013) and partnership supervision (Noel, Kurgat & Chang'ach 2022).

In South Africa, cohort doctoral programmes offering indirect supervision have become a thriving community of practice (De Lange *et al.* 2011). Whilst cohort supervision does not replace the single student-single supervisor model, it acts as a buffer for some of its challenges through supplemental support for research students. During cohort sessions, students engage with their peers and several supervisors. Cohorts can be organised by discipline, multiple disciplines, year of study, or by a group of supervisors and their students (De

Lange *et al.* 2011). The aim is to expose students to multiple voices, expertise and experience. The multiplicity of perspectives, methodologies, and theories adds richness to studies and creates opportunities to present, receive critique and share resources (Govender & Dhunpath 2011).

Supervision, we conclude, has diversified and become more inventive over time. In terms of the tradition-innovation continuum, we have chosen to focus on the co-supervision experiences of doctoral students. We analyse the benefits and difficulties of co-supervision through the lenses of complementarity, contradiction and conundrum. We conclude with the implications of co-supervision.

Conceptions of Co-supervision

The concept of co-supervision is not entirely new, as the first discussions date back to the late 20th century (Olmos-López & Sunderland 2017). The growing number of articles and books on co-supervision is a testament to its importance (McKenna & van Schalkwyk 2023). Moreover, the national review of South African doctoral qualifications highlights several key aspects related to co-supervision (Faller *et al.* 2023). According to Faller *et al.* (2023), a key finding was that traditional one-to-one supervision can be problematic, particularly in interdisciplinary research. This limitation is particularly evident when supervisors lack adequate guidance on graduate student characteristics and when students must consider multiple disciplinary perspectives. To address these challenges, the National Report explicitly recommends innovative practices that enhance doctoral supervision by making it more collegial and interdependent.

The national report suggests that the rise in the number of doctoral students has led to the appointment of both new supervisors and external supervisors (Faller *et al.* 2023), which brings difficulties as external supervisors may have limited orientation to the institutional vision and mission and may be unfamiliar with how the characteristics of doctoral students should be aligned with institutional goals (Faller *et al.* 2023). This situation can potentially impact the quality and consistency of supervision. Other complications include the practice of supervision, which operates within complex university dynamics influenced by the intersecting imperatives of growth, efficiency, transformation, and equality (Wilson-Strydom 2016) and disciplinary differences. How-ever, there are differences related to disciplines. For example, Pyhältö *et al.* (2024) found that environmental, food and biological sciences report the highest frequency of co-supervision, while natural sciences prefer one-to-one supervision.

Although less common than one-to-one PhD supervision (Ukwoma & Ngulube 2020), the 'few-to-one' supervision model trend reflects the increase in interdisciplinary research, the specialisation of methods and the quality assurance requirements (Pyhältö *et al.* 2024). Co-supervision offers significant benefits, including knowledge sharing, improved learning experiences, and enhanced quality of research (Grossman & Crowther 2015; Segalo 2021). It serves as a safety net for academic mobility, ensuring continuity when supervisors retire, take sabbaticals or relocate. Additionally, it provides a valuable platform for training novice supervisors through mentoring by experienced academics (Grossman & Crowther 2015).

Co-supervision in Practice

The implementation of co-supervision presents an entanglement of relationships, power dynamics, and institutional practices that significantly impact student experience and success (Hansson & Schmidt 2023). While co-supervision disrupts traditional power dynamics by distributing authority among multiple mentors, it is replete with positive and negative consequences (Olmos-López & Sunderland 2017).

According to Paul, Olson and Gul (2014) students in co-supervision arrangements often report feeling more empowered to express their ideas and challenge assumptions. They also found that students must navigate a complex team climate in which prior relationships, power hierarchies, and supervisors' personal interests influence the supervision process. In their study, Hansson and Schmidt (2023: 1178) reported that some students felt like "pawns in a bigger game', particularly when supervision arrangements prioritise supervisors' career advancement or networking opportunities over students' needs. This includes instances of "back-scratching" arrangements and internal supervisor changes, which, while potentially beneficial to academic careers, do not always serve students' best interests (Hansson & Schmidt 2023: 1179).

It is evident that the literature has insufficiently addressed students' agency in co-supervision arrangements. Students are not passive recipients but active agents who negotiate power dynamics and draw on diverse expertise (Manathunga 2012). Dei and Asgharzadeh (2001) argue that student agency is central to transforming oppressive academic structures. Furthermore, students bring diverse backgrounds and expectations that interact differently with co-supervision models depending on their cultural contexts and prior experiences (Manathunga 2007).

The challenges of co-supervision are particularly evident in open e-learning contexts, where problems with student selection, supervision and communication can be exacerbated (Manyike 2017). To maximise the potential of co-supervision, Grossman & Crowther (2015) and Segalo (2021) suggest that institutions should develop responsible co-supervision practices, improve the training of novice supervisors and develop discipline-specific guidelines. Hansson and Schmidt (2023) argue that supervision teams should explicitly discuss roles and responsibilities before supervision begins to better support doctoral students' success.

Ultimately, while co-supervision aims to improve doctoral success, defined as completing the doctorate in the shortest possible time at the highest academic/scientific/professional level (Bitzer 2012), the complex interpersonal dynamics and power structures often leave students feeling disempowered, with the potential to reinforce rather than dismantle traditional academic hierarchies (Hansson & Schmidt 2023). Perhaps one of the most compelling arguments for co-supervision is the access it provides to diverse perspectives and expertise. In an era of increasing specialisation and interdisciplinary research, no single supervisor can be expected to possess comprehensive expertise across all relevant domains. A study by Paul, Olson and Gul (2014) found that students under co-supervision were more likely to produce research that successfully integrated multiple disciplinary perspectives, which suggests that co-supervision may be particularly beneficial for projects that span traditional academic boundaries.

The effectiveness of co-supervision varies significantly across institutional contexts and geographical locations. Practices considered successful in well-resourced Global North universities may differ substantially from those in institutions with different resource constraints or cultural norms (Nerad 2012). Green and Usher (2003) caution against universalising doctoral education practices, noting that institutional particularities fundamentally shape supervisory experiences. This contextual variability necessitates context-sensitive research rather than overgeneralising the impacts of co-supervision.

Nevertheless, co-supervision necessitates the development of new communication patterns that can accommodate multiple voices and perspectives. While this can present challenges, it also offers opportunities for richer dialogue and more comprehensive feedback. Olmos-López and Sunderland (2017) found that supervisors often developed explicit communication protocols to ensure clarity and consistency in their interactions with students. These protocols facilitated more effective supervision and provided students with valuable

models for professional communication in collaborative research environments.

The complementary structural elements of co-supervision within institutional frameworks offer significant advantages for both educational quality and academic collaboration. Bitzer and Albertyn (2011) provide a comprehensive, structured planning framework to distribute supervisory workload efficiently while maximising specialists' skills. Their multifaceted approach serves several crucial functions: establishing a foundation for productive student-supervisor discussions, enhancing capacity development among academic staff, enabling critical reflection and practice improvement, facilitating clear role delegation and accountability, and allowing customisation of supervision to meet individual student needs. The benefits extend beyond immediate educational outcomes to broader academic culture, as Paul, Olson and Gul (2014) observed that students exposed to co-supervision demonstrate a greater propensity for seeking collaborative opportunities in their future careers, thereby contributing to a more interconnected research ecosystem. These complementary elements reveal how well-structured co-supervision can transform institutional culture beyond individual doctoral projects, creating ripple effects that enhance research connectivity and interdisciplinary engagement.

Despite these potential benefits, structural contradictions emerge at the institutional level that impede the effective implementation of co-supervision models. Kumar and Wald (2022) identify how universities frequently struggle to adapt their institutional systems to effectively accommodate co-supervisory arrangements, creating administrative barriers to what might otherwise be beneficial educational practices. Gender-related issues introduce particularly troubling contradictions, as Almlöv and Grubbström (2024) expose practices where female co-supervisors are sometimes added to teams without their knowledge, merely to fulfil gender quotas in funding applications. This revelation highlights how institutional pressures around equality can paradoxically reinforce problematic power dynamics rather than addressing them substantively. These contradictions demonstrate how institutional structures and cultures can simultaneously promote co-supervision in principle while undermining its effective implementation in practice.

The institutional conundrum centres on maintaining academic standards while fostering innovation in supervisory practices, a challenge requiring structural changes rather than individual adaptations. Polkinghorne *et al.* (2023) argue that successful co-supervision demands deliberate planning, clear role definitions, and ongoing communication to harness its benefits and mitigate its

challenges. Their approach recognises that the tensions inherent in co-super-vision can potentially drive innovation in supervisory practices and foster more robust support systems for doctoral students, provided that appropriate institutional frameworks are in place. Grossman and Crowther (2015) offer specific measures to resolve this conundrum, including positively addressing the role of co-supervision in employee advancement, ensuring equitable workload recognition, formalising and recognising informal supervisory activities, developing clear policies and guidelines, and providing proper training and support for novice supervisors.

Grossman and Crowther (2015) acknowledge that the conundrum cannot be resolved without systemic change at the institutional level. The fundamental challenge lies in creating structures flexible enough to accommodate innovative supervisory practices while maintaining sufficient standardisation to ensure quality and equity, a balance that requires reimagining institutional frameworks rather than simply modifying existing ones. This conundrum reveals how co-supervision, while promising significant benefits for doctoral education, demands institutional transformation rather than mere accommodation within traditional academic structures. Furthermore, institutional transformation must centre student voices as primary sources of knowledge about effective co-supervision (Leonard 2001). Frameworks must also account for institutional diversity, recognising that effective practices emerge from dialogue between general principles and local contexts (Nerad & Heggelund 2008).

Theoretical Framework: Triadic Dialectical Coherentism

Utilising complementarity, contradiction, and conundrum as three important epistemological notions, triadic dialectical coherentism provides a theoretical framework that combines these three ideas. This structure is based on and expands upon several well-established philosophical traditions, such as the complementarity principle from quantum physics developed by Niels Bohr (1948), dialectics from Hegel (McKenna 2011) and Marx, (Norman & Sayers 1980), and modern coherentism in epistemology (Olsson 2017; Hage 2013). Triadic dialectical coherentism offers a stable framework for understanding complicated events characterised by viewpoints that seem incompatible with one another and ongoing conflicts. We discuss in the following order: duality that is complementary, contradictions that are generative, conundrums as catalysts, and implications for the study at hand.

Duality that is Complementary

The concept of complementary duality is the first pillar of this framework. This theory posits that views that seem contradictory or incompatible with each other can simultaneously be legitimate and necessary for a comprehensive understanding of complex events. An example of this is Einstein's observations that light is both a particle and a wave stream, which unite the opposing views of Huygens and Newton (Anastopoulos 2008). Einstein's findings showed that both explanations are necessary to comprehensively understand how light travels. Both views are interconnected components of a coherent whole, in contrast to classical dualism, which only offers either/or options. In higher education, complementary duality refers to the acceptance that different methodological techniques, theoretical traditions, and disciplinary viewpoints do not represent contradictory truth claims but rather complementary aspects of a multi-layered reality. Consequently, multiple paradigms or discourses are necessary to explain the unique elements of the same phenomenon, as no single approach can fully capture it (Tambun, Yudoko & Aldianto 2024).

Contradictions that are Generative

Generative contradiction, the second pillar, views contradictions not as logical failures that need to be addressed, but as dynamic tensions that drive the growth of concepts and the generation of knowledge (Holmqvist, Gustavsson & Wernberg 2007). Hegelian dialectics is expanded upon by this concept, which proposes that the sequence of thesis-antithesis-synthesis does not eradicate conflict but instead changes it into more complicated forms (Maybee 2020). Rather than producing paradoxes or necessitating the rejection of one viewpoint in favour of another, generative contradiction emphasises that conflicts between opposing views offer unique insights when properly addressed. This is something that is emphasised by the concept of generative contradiction. In particular, productive conflicts serve as engines of intellectual and practical innovation, especially in fields where complex and multidimensional issues defy straightforward solutions (Chapkis 2010).

Conundrum as a Catalyst

The third pillar of triadic dialectical coherentism rests on the concept of conundrum as a necessary catalyst for further investigation (Pinnegar & Hamilton 2020). Coherentism considers persisting conundrums, aporias, or

unresolved questions important elements that prevent premature theoretical closure and maintain intellectual momentum (Robinson 2019). Conundrums are unpleasant aspects of knowledge systems with an advantage: they encourage ongoing enquiry and discourage premature resolution (Nuckolls 2018). The idea of delayed resolution challenges the conventional academic focus on conflict resolution, as it prioritises the ability to hold differing viewpoints in constructive tension. It is argued that the most intellectually productive stance is not one of complete explanation but rather of skilful engagement with recurring problems (Wessler 2020; Chapkis 2010).

Implications for Epistemology and the Study at Hand

Triadic dialectical coherence leads to three important epistemological consequences. The original stance rejects foundational methods that strive for ultimate certainty and extreme relativism that abandons the goals of coherence entirely. Coherentism evaluates knowledge systems based on their explanatory power and internal consistency, while acknowledging their constant susceptibility to change. Additionally, it alters the definition of expertise, such that mastery of previous paradigms is no longer considered decisive (Olsson 2022). The definition of this new expertise includes the ability to move between complementary views and to discuss the contradictions between them. The most complete understanding of complex phenomena will always require further conundrums rather than resolving every conflict (Hage 2013). We must rely on this method to understand complex phenomena because no other approach provides a sufficient explanation.

The framework of triadic dialectical coherentism is best suited for studying doctoral students' experiences in co-supervision. Co-supervision relationships naturally create complementary perspectives through the supervisors' different expertise and orientations, but they also lead to contradictions through conflicting advice and generate unresolved issues that challenge existing paradigms (Hein & Lawson 2008). The use of dialectical coherentism in co-supervision research allows researchers to investigate supervisory relationships beyond the level of agreement between supervisors. Researchers are given the opportunity to make more thorough assessments through this method. Triadic dialectical coherentism enables researchers to engage in analytic work, emphasising constructive tensions and intellectual development through contradicttions, while fostering students' abilities to navigate complex intellectual landscapes full of persistent conundrums.

Methodology as Theory: The Janus Head, the Method of *Currere* and Phenomenology

To conceptualise doctoral students' reflective processes, this study draws on the metaphor of the Roman God Janus, traditionally depicted with two faces - one looking to the future and one to the past (Brady 1985). A third face, looking inward (Agarwal & Malloy 2000), represents participants' reflective and reflexive introspection of their thoughts, feelings, motives, and actions as private and public intellectuals. The Janus three-dimensional perspective aligns with Currere's emphasis on temporal reflection and phenomenology's focus on lived experience, creating an integrated methodological framework for understanding doctoral students' co-supervision journeys (Denzin & Lincoln 2005).

Through the method of '*currere*' and 'complicated conversation' (Pinar 1975; 2004; 2019), the study explores how doctoral students navigate their unique past and present experiences while simultaneously looking toward the future and symbolising the ongoing challenges they face as they negotiate conflicts between their philosophical beliefs, ethical considerations, and institutional commitments during the co-supervision journey.

The method of *currere* allowed for deep introspection and analysis of educational experiences, creating opportunities for students to engage with their past and present backgrounds while considering possible futures (Kanu & Glor 2006; Pinar 1975; 2019). This study's research questions align with Pinar's four-step method – regressive, progressive, analytical, and synthetical, while incorporating phenomenological inquiry. The regressive dimension examine how doctoral students describe and make sense of past experiences that led to their current co-supervision arrangement. Progressive questions explore their envisioned futures and the anticipated impact of co-supervision on their academic development. The analytical component investigate their current co-supervision relationships, detached from temporal influences, while the synthetical questions examine how students integrate past experiences, present realities, and future aspirations to make meaning of the co-supervision journey (Pinar 1975; 2004).

Nsibande (2007) proposes *currere* as an autobiographical tool for supervisors to reflect on and improve their research supervision practices. Nsibande (2007) suggests using *currere* to expose and critique the assumptions underlying supervision orientation, arguing that acquiring knowledge and understanding of best practices requires supervisors to embark on a '*currere*' that encourages investigation of their supervision experience. Smith (2013)

advocates for integrating critical pedagogy with currere to enhance students' and teachers' understanding of the structural and political contexts shaping their experiences. Currere engages with students' personal histories, aspirations, and subjectivities as a self-reflective method of inquiry. While extensive academic work has focused on privileging student and teacher experience to foreground these histories and subjectivities, such work faces criticism regarding its utility for eliciting more systemic understandings of the educative experience (Smith 2013). These studies collectively emphasise the currere method's potential for encouraging self-reflection, addressing systemic issues, and promoting trans-formation in educational settings, particularly in the context of post-apartheid South Africa (Nsibande 2007; Smith 2013).

In-depth, semi-structured interviews, designed as conversations to elicit rich descriptions from participants who had experienced co-supervision, were conducted to generate data (Patton 1990). To allow participants to feel com-fortable sharing their personal experiences, the authors employed an experienced fieldworker to conduct the interviews. Following phenomeno-logical principles (Patton 1990), probing questions were used to deepen responses and clarify meanings, which were captured verbatim, while acknowledging that voices might be 'shaped or constrained by other influences' (Lowe 2007: 12).

The data analysis process followed three key phenomenological steps (Patton 1990). First, epochè required the researchers to acknowledge and bracket personal biases and perspectives. Second, phenomenological reduction involves breaking down the data into its pure form, free from assumptions and intrusions. The last step was the development of a structural synthesis that revealed the essence of participants' experiences. Tesch's steps were followed in the coding process to systematically develop interpretations by breaking down data into smaller components and identifying emerging themes (Creswell 2014).

Participant Selection

Purposive sampling was used to generate data rather than seek representativeness (Leedy & Ormrod 2019). Three female participants were purposively selected for this study: Jenny, Terry and Mbali (pseudonyms). Female co-supervisors supervise all three participants. Jenny and Terry are at the data analysis stage. Mbali has generated the first full draft of the thesis.
In the next section, we analyse their experiences.

Triadic Analysis of Co-supervision Dynamics

The data in this section is taken from interviews with three female PhD students named Terry, Mbali, and Jenny. The students described their experiences with co-supervision arrangements from their respective perspectives. Participants discuss a professor and an early-career academic referred to as Prof and ECA, respectively. The data offers insights into how students handle the intricate relationships, power dynamics, and practical obstacles inherent in having numerous supervisors guiding them through their doctoral journey.

Complementary Duality in Co-supervision

In this section, we shed light on various complementary components that, when integrated, constitute a more comprehensive support system for students who are co-supervised. For instance, Jenny observed, "*The two personalities are completely different. ... It also served as a kind of balance, as Prof is stricter than ECA*'. The phrase "*It also served as ..*'. shows that having co-supervisors with distinct personalities was advantageous. Specifically, Jenny appreciates each supervision style because she understands that strict supervision offers unique benefits, while lenient supervision provides advantages. Furthermore, she explains that having supervisors with varied styles enhances the educational experience for students. Consequently, the statement also suggests that Jenny had to adapt to different expectations or feedback styles when working with each supervisor and is perhaps more suited to a student who is open-minded and flexible.

Moreover, Jenny recounts that ECA is vocal once the meeting is over: "*When we go outside, that is when she is able to say something, and also, her office is always open*'. As a result, Jenny's well-being is not affected by the dualistic supervision approach because she knows she has access to both supervisors, albeit in different spaces.

In addition, rigorous academic guidance and emotional support are provided through co-supervision. To illustrate this point, Mbali observed, "*The silent lady is there for me, like emotionally*'. Meanwhile, Jenny notes that the ECA acts as "*a buffer*" when she approaches the professor, which makes her more anxious. In support of these findings, Bitzer and Albertyn (2011) described this dual support system as a multi-layered approach that allows support to be tailored to students' individual needs. Similarly, the study by White *et al.* (2024) shows that student well-being differs significantly depending on how they deal with the perspectives of their supervisors. In their

research, student well-being reached higher with co-supervision methods than traditional solo-supervision models. Additionally, research (Olmos-López & Sunderland 2017) shows that successful co-supervisor teams implemented defined communication protocols but kept their interactions flexible. Correspondingly, Almlov and Grubbström (2024) report that co-supervisors often practice the hidden curriculum, providing unofficial emotional support outside the formal academic context.

Furthermore, decentralised authority during co-supervision generates a learning environment that promotes intellectual advancement and encourages diversity. As a result, students receive multiple mentoring and advising opportunities through complementary approaches that demonstrate collaborative practices, and consequently help shift traditional academic hierarchies towards more collegial settings. Therefore, our conclusion suggests that a complementary approach can provide support tailored to students' needs and situations.

Contradictions that Generate Growth

The analysis of data reveals multiple conflicts encountered by the study participants. For example, the following statement from Terry says, "*When you get comments from both of them, it can be a little bit confusing because maybe Prof says one thing and ECA says something else. However, I eventually became used to it*". Specifically, this statement reveals important insights into how co-supervision works. A closer examination of this statement provides a better understanding of the dynamics of co-supervision. Terry noted that conflicting feedback from professors and ECA leads to confusion. As a result, dual supervision models demonstrate their fundamental problem by leading to conflicting instructions due to intellectual and methodological differences. Notably, when students describe conflicting feedback as only "*a little bit confusing*" (Terry), they underestimate the frustration and cognitive dissonance they face when following conflicting instructions from authority figures. In contrast, the statement by Terry, "*I eventually became used to it*", represents a significant developmental step in which the student has moved from confusion to accommodation while demonstrating growing critical thinking skills and intellectual independence. Therefore, Terry has reached a stage where she successfully combined different viewpoints and crucial feedback provided within complex supervisory contexts rather than simply carrying out instructions.

While positive development is activated by conflict, students with multiple supervisors are under tremendous stress due to conflicting instructions (Hansson & Schmidt 2023; Olmos-López & Sunderland 2017). Additionally, undesired outcomes can be amplified when teaching staff are often forced to supervise areas peripheral to their specialisation due to staff shortages, leading to discrepancies in subject and methodological knowledge that can hinder student progress (Polkinghorne *et al.* 2023).

Contradictions are particularly apparent in sequential feedback procedures, as Terry describes, "*So, the instant I receive Prof's response, I do not know what to do with it since ECA has not reacted yet... I submit it to her... And after that, at some point in the future, it will be returned to me with remarks*". The terms "*submit*" and "*returned with remarks*" create a transactional framework that turns students into passive recipients on a feedback conveyor belt rather than active partners in a dialogue-based learning process. Moreover, as the timeframe remains unclear when feedback is promised "*at some point in the future*", students face unpredictable wait times that can disrupt their workflow and cause delays in the learning process while increasing anxiety levels.

Although this sequential model may be administratively convenient for supervisors, it leads to a fragmented learning experience where the synthesis of feedback is solely the student's responsibility without the benefit of experiencing a direct academic exchange between experts. Consequently, the statement illustrates how the institutional practices of co-supervision unintentionally create systemic inefficiencies and psychological pressures that complicate the student journey by transforming potentially rich dialectical learning into sequences of fragmented student responses that must be navigated and reconciled independently.

Similarly, through her account of how she balances the conflicting expectations of her two supervisors, Jenny demonstrates the underlying power dynamic while ensuring that she does not offend either of them. Thus, through the model of co-supervision, students learn to manage conflicting viewpoints and expectations, mirroring common academic and professional situations where intellectual debate unfolds amidst uncertainty.

In contrast, Mbali is more accepting of the power hierarchy: "*Prof is the main supervisor for me, so she would lead'*. Regarding this dynamic, Hansson and Schmidt (2023) explain that co-supervision dismantles traditional power hierarchies by distributing authority among multiple mentors and show that Mbali's positive feedback about unity and support echoes Hansson and

Schmidt's (2023) finding that the supervisory relationship can evolve if this tension is adequately managed.

When analysing how power is exercised in practice within co-supervision relationships, Mbali provides the following description of what happens during a co-supervision session: "*When Prof takes over, ECA became silent, so she would just come in and make one comment, and that's the end of it... when we leave that space... that is where and when ECA would then come to me..*'. This narrative shows how institutional hierarchies can unintentionally suppress significant contributions in formal contexts and force secondary exchanges in informal settings. Mbali's description of the co-supervision session reveals that the professor's dominance leads ECA to remain silent during formal sessions, prompting them to share their ideas in informal conversations afterwards.

Interestingly, according to the students, their impressions of their supervisors are always contradictory. For instance, Mbali says, "*Over time, as I got to know Prof, I think I realised that her bark is much louder than her bite*'. Subsequently, this inconsistency in perception leads to unusual insights as students learn to interact with authority figures on numerous levels. Indeed, this is an example of a generative contradiction, meaning it changes rather than needs to be resolved (Chapkis 2010).

Furthermore, in the following example, Jenny explains how feedback can demotivate and provide clear direction: "*When it comes back and you [see] that oh, they've pulled this thing apart, then it is rather demotivating... But the thing that I really love is that they do offer feedback; there's no room for you to make assumptions*'. Jenny's emotional conflict illustrates the potential for a mutually beneficial coexistence between competing forces without requiring a choice between them. However, it also indicates the need for affirmation or communication from both supervisors before deciding on minor matters. Consequently, the emotionally conflicted response leads to delayed development and reduced confidence in students' own judgement. Paradoxically, the need for supervisor approval produces effects that directly counter the independence that co-supervision intends to encourage. Nevertheless, it serves as an example of how competing forces can co-exist beneficially rather than demanding a solution in favour of one side. We conclude that student well-being can be at stake in co-supervision arrangements even when contradictions are generative.

Conundrums as Catalysts

The data reveal several conundrums. Students report that it is difficult to coor-

dinate input from multiple supervisors in different cases. For instance, Mbali reveals that she feels unsure how to process the professor's feedback when other supervisors have not yet shared their thoughts. Similarly, Terry's observation shows how time lags between successive comments from superiors can unexpectedly drive intellectual development. Terry's confession that she did "*not know what to do with it*" shows the student is experiencing both frustration and cognitive dissonance. Interestingly, the wait time for the ECA to comment after the professor's feedback initially appears to be a procedural obstacle; however, it becomes a necessary space for students to work through incomplete instructions and cultivate their academic voice. However, while seemingly inefficient, the limbo between supervisor input forces students to critically evaluate competing perspectives rather than passively receive instruction. Therefore, Terry's description demonstrates how institutional constraints unintentionally create productive tensions that mirror real-world research environments where definitive answers are difficult to find, and multiple interpretations must be weighed. As a result, the paradox of asynchronous feedback becomes a powerful developmental mechanism that transforms what might be seen as an administrative failure into an opportunity for intellectual maturation as students learn to deal with ambiguity, resolve contradictions, and ultimately move from knowledge consumers to knowledge producers through the gaps in the monitoring structure that might otherwise be dismissed as purely problematic.

Furthermore, the students recognise the collaboration between caregivers but do not fully understand how it works. For example, Mbali felt that "*their relationship needed to be discussed prior to the meeting*', meaning that students need to know the relationship between the co-supervisors. Additionally, Mbali explained. "*On the other hand, I believe that it is something that they planned or that they discussed outside of the meetings*'. Consequently, the planning process is a conundrum for students, as they are not privy to it, and simultaneously creates a constructive tension that helps maintain intellectual momentum (Robinson 2019). In other words, they accept that they cannot know.

Moreover, Terry explains the repercussions: "*If one party is not available, there is a bit of a delay and prolongs the study period... it breaks the process and progress*'. Evidently, coordination issues between co-supervisors disrupt their progress. In this regard, Polkinghorne *et al.* (2023) refer to the tension between the theoretical benefits of different perspectives and the coordination difficulties as a factor that requires deliberate planning, clear role

definitions, and ongoing communication to maximise the benefits and reduce the challenges.

According to Elbow (1989), poorly managed arrangements lead to a good cop/bad cop dynamic. Specifically, the dynamic shows how students become trapped in power struggles or conflicting expectations due to the supervisors' failure to communicate clearly. Notably, in an increasingly multidisciplinary environment requiring a broad range of knowledge, the difficulty of the situation becomes particularly apparent. Similarly, Almlov and Grubbström (2024) found that co-supervisors regularly become important contacts for students' emotional and psychological problems. However, this happens even though they are not sufficiently trained for this task and do not feel confident enough to seek help from their older colleagues. Consequently, this leads to a paradoxical scenario in which the theoretically strengthened support network in co-supervision arrangements does not function effectively in reality due to communication barriers, a lack of clarity regarding roles, and insufficient preparation for addressing problems unrelated to academia. Therefore, this difficulty requires a careful balance between equalising different perspectives and avoiding decision-making paralysis.

In essence, the development paradox arises from the opposing forces between promoting independent growth and providing the necessary support. Indeed, this is probably the most fundamental conundrum associated with doctoral education. Thus, the challenge remains to provide adequate guidance while avoiding the creation of dependencies and supporting intellectual risk-taking without violating academic standards. Furthermore, two common failures at the formal level that are not addressed are the inequitable distribution of tasks and the lack of recognition of mentors' informal contributions (Grossman & Crowther 2015). According to Almlov and Grubbström (2024), some teams add female co-supervisors without realising it to meet gender quotas for funding applications. Consequently, institutional mandates for gender equality can unintentionally perpetuate existing power issues rather than solve them. However, in this instance, gender quotas are not an issue, as the three students and the co-supervisors are all female.

Implications of the Co-supervision Approach

Co-supervision represents an academic mentoring approach that requires navigating between complementary perspectives and discussing their contradictions (Olsson 2022). Consequently, binary thinking approaches to

academic mentoring encounter difficulties in this type of mentoring. According to Jenny's experience, "*What's also promising about it is that through the feedback, they are actually building us up to a level that we should be at*', there emerges a realisation that the feedback helps them to reach the level expected of them and necessitates the need to maintain a comfortable tension between different views. Therefore, for successful co-supervision experiences, students need to acquire a new kind of competence. Specifically, this competence is not the mastery of a single supervisor's perspective but the ability to switch between complementary perspectives and to deal constructively with contradictions. For example, Mbali captures the attitude for working with co-supervisors: "*Embrace it. There are many distinct personalities among people. Not only are they at various academic levels, but they are also at distinct degrees of knowledge*', emphasising this type of expertise.

In contrast, Grossman and Crowther (2015) insist that institutional system change, rather than individual change, must occur because their research shows that repeated problems reinforce this need for change. Notably, the difficulties with time management and coordination, as well as the lack of clarity in input and process, highlight the fundamental challenge of creating structures that balance innovative supervisory practices with the necessary standards of quality and equity. Furthermore, the experiences shared by the students illustrate how the process of negotiating complementary viewpoints, fruitful conflicts, and ongoing conundrums leads to the creation of an academic identity. When Jenny describes using ECA as "*the go-between*', or when Mbali reflects on how supervisors "*shape me, they give me a lot of information*', they are articulating what Hein and Lawson (2008) describe as that which enables students to participate in analytical tasks that emphasise constructive tension and intellectual growth through contradiction.

In their study, Johansen *et al.* (2019) emphasise the importance of ensuring that roles and responsibilities are clearly defined and documented from the outset. Although power imbalances may still exist in academic relationships, they can be mitigated through open and honest communication and formal agreements. Similarly, in discussing the developmental dilemma, Bitzer and Albertyn (2011) argue that effective co-supervision requires establishing defined procedures, introducing accountability mechanisms, and explicitly allocating tasks among supervisors. Indeed, their strategy highlights that the potential benefits of co-supervision for student development cannot be realised without explicit structural support to help students navigate the inherent complexity of multiple supervisory relationships. Therefore, it may be argued

that co-supervision support is designed to help students navigate multiple perspectives.

Limitations of the Study

This study acknowledges several important limitations. The purposive sample of three female doctoral students, while enabling rich phenomenological inquiry, limits generalisability across diverse student populations. The gender homogeneity of participants and supervisors prevents examination of cross-gender dynamics in co-supervision. The focus on students at advanced doctoral stages means early-stage relationship formation experiences are not addressed. Additionally, including only student perspectives, without supervisor voices, provides a one-sided view of co-supervision dynamics. Finally, the single South African university context may limit transferability to institutions with different resource constraints and academic cultures, particularly between settings in the Global South and the Global North.

Conclusion

The triadic approach of complementarity, contradiction and conundrum in co-supervision demonstrates how these elements effectively represent the complex role interactions and tensions in doctoral supervision relationships. Our research shows that conflict in co-supervision can lead to intellectual growth and the development of new institutional practices. This approach focuses on the productive potential inherent in these difficulties rather than viewing them as problems to be solved.

The key to effective co-supervision is building institutional structures and human capacities that productively endure contradictions and conundrums rather than trying to eliminate or solve them all. According to Wessler (2020) and Chapkis (2010), intellectual productivity develops through skilful interaction with recurring challenges rather than through full explanation. The experiences of Terry, Mbali, and Jenny show the difficulties and potential of this method.

Our three-headed approach, reflecting the ancient Roman god Janus, enables us to gain a deeper understanding of the impact of co-supervision on doctoral education. The head of complementarity illustrates how synergistic potential, distributed expertise, and balanced power relations encompass current movements in interdisciplinary research. The head of contradiction exposes

fundamental conflicts between established authority structures and informal dynamics, as well as differences in research methods and support requirements, highlighting the ongoing difficulties faced when operating within conventional frameworks of care. The conundrum head reveals the creative potential of these apparent contradictions by suggesting innovative methods to transform tensions into opportunities for growth.

Adopting this three-headed perspective makes the apparent problems the basis for innovative solutions. Several perspectives suggest that innovation in supervision practice stems from generative tensions arising from the need to balance distributed authority, manage the flow of communication, integrate diverse perspectives, and foster student independence. Undoubtedly, the success of future co-supervision depends on the ability to integrate multiple perspectives rather than prioritising a single viewpoint. Supervisors and students should actively collaborate to develop spaces where multiple perspectives can be effectively shared. The complexity and interdisciplinary nature of modern research make a three-headed vision more important than ever.

References

Agarwal, J. & D.C. Malloy 2000. The Role of Existentialism in Ethical Business Decision-making. *Business Ethics: A European Review* 9,3: 143 - 154. Available at: https://doi.org/10.1111/1467-8608.00185

Almlöv, C. 2024. *Becoming a Doctoral Co-supervisor: How Novice Doctoral Co-supervisors form Collective and Reflective Individual Identities.* Doctoral dissertation, KTH Royal Institute of Technology. https://doi.org/10.1108/SGPE-06-2024-0064

Almlöv, C. & A. Grubbström 2024. 'Challenging from the Start': Novice Doctoral Co-supervisors' Experiences of Supervision Culture and Practice. *Higher Education Research & Development* 43,1: 17-31. Available at: https://doi.org/10.1080/07294360.2023.2218805

Anastopoulos, C. 2008. *Particle or Wave: The Evolution of the Concept of Matter in Modern Physics.* Princeton, NJ: Princeton University Press. https://doi.org/10.1515/9780691222493

Bitzer, E.M. 2012. Best Practices for the Research Doctorate? A Case for Quality and Success in Knowledge Production. *South African Journal of Higher Education* 26,6: 1182 - 1199. Available at: https://doi.org/10.10520/EJC132773

Bitzer, E.M. & R.M. Albertyn 2011. Alternative Approaches to Postgraduate Supervision. *South African Journal of Higher Education* 25,5: 875 - 888. Available at: https://journals.co.za/doi/pdf/10.10520/EJC37725

Bohr, N. 1948. On the Notion of Causality and Complementarity. *Dialectica* 2,3-4: 312 - 319. Available at: https://doi.org/10.1111/j.1746-8361.1948.tb00703.x

Brady, F.N. 1985. A Janus-headed Model Ethical Theory: Looking Two Ways at Business/ Society Issues. *The Academy of Management Review* 10,3: 568 - 576. Available at: https://doi.org/10.5465/amr.1985.4279018

Brown, R.D., R.L. Geesa & K.R. McConnel 2020. Creating, Implementing, and Redefining: A Conceptual Framework for Mentoring Pathways for Education Doctorate Students. *Higher Learning Research Communications* 10,2: 20 - 37. Available at: https://doi.org/10.18870/hlrc.v10i2.1188

Chapkis, W. 2010. Productive Tensions: Ethnographic Engagement, Complexity, and Contradiction. *Journal of Contemporary Ethnography* 39: 483 - 497. Available at: https://doi.org/10.1177/0891241610375278

Creswell, J.W. 2014. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches*. 4th Editon. London & New York: Sage Publications.

De Lange, N., G. Pillay & V. Chikoko 2011. Doctoral Learning: A Case for a Cohort Model of Supervision and Support. *South African Journal of Education* 31: 15 - 30. Available at: https://doi.org/10.15700/saje.v31n1a413

Denzin, N.K. & Y.S. Lincoln (eds.). 2005. *The Sage Handbook of Qualitative Research.* 3rd Edition. London & New York: Sage Publications.

DHET 2019. *National Skills Development Plan 2030*. Gazette No 42290. Pretoria: Government Printer.

Elbow, P. 1986. *Embracing Contraries: Explorations in Learning and Teaching*. Oxford & New York: Oxford University Press.

Faller, F., S. Burton, A. Kaniki, A. Leitch & I. Ntshoe 2023. Achieving Doctorateness: Is South African Higher Education Succeeding with Graduate Attributes? *South African Journal of Higher Education* 37,2: 93 - 108. Available at: https://dx.doi.org/10.20853/37-2-5370

Govender, K. & R. Dhunpath 2011. Student Experiences of the PhD Cohort Model: Working Within or Outside Communities of Practice? *Perspectives in Education* 29,1: 88 - 99. Available at: https://doi/10.10520/EJC87632

Grossman, E.S. & N.J. Crowther 2015. Co-supervision in Postgraduate Training: Ensuring the Right Hand Knows what the Left Hand is Doing. *South African Journal of Science* 111,11-12: 1 - 8. Available at: https://doi.org/10.17159/sajs.2015/20140305

Hage, J. 2013. Three Kinds of Coherentism. In Araszkiewicz, M., J. Šavelka (eds): *Coherence: Insights from Philosophy, Jurisprudence and Artificial Intelligence*. (Law and Philosophy Library 107.) Dordrecht: Springer. Available at: https://doi.org/10.1007/978-94-007-6110-0_1

Hansson, E. & M. Schmidt 2023. A Small Pawn in a Big Game: An Exploration of Doctoral Students' Experience of Co-supervisory Relationships. *Journal of Further and Higher Education* 47,9: 1169 - 1181. Available at: https://doi.org/10.1080/0309877X.2023.2231352

Hein, S.F. & G. Lawson 2008. Triadic Supervision and its Impact on the Role of the Supervisor: A Qualitative Examination of Supervisors' Perspectives. *Counselor Education and Supervision* 48: 16 - 31. Available at: https://doi.org/10.1002/j.1556-6978.2008.tb00059.x

Holmqvist, M., L. Gustavsson & A. Wernberg 2007. Generative Learning: Learning beyond the Learning Situation. *Educational Action Research* 15: 181 - 208. Available at: https://doi.org/10.1080/09650790701314684

Johansen, B.T., R.M. Olsen, N.C. Øverby, R. Garred & E. Enoksen 2019. Team Supervision of Doctoral Students. *International Journal of Doctoral Studies* 14: 69 - 84. Available at: https://doi.org/10.28945/4177

Kanu, Y. & M. Glor 2006. '*Currere*' to the Rescue? Teachers as 'Amateur Intellectuals' in a Knowledge Society. *Journal of the Canadian Association for Curriculum Studies* 4,2: 101 - 122. https://doi.org/10.25071/1916-4467.17007

Kumar, V. & N. Wald 2022. Ambiguity and Peripherality in Doctoral Co-supervision Workload Allocation. *Higher Education Research & Development* 42,4: 860 - 873. At https://doi.org/10.1080/07294360.2022.2115984

Lee, A. 2019. *Successful Research Supervision.* 2nd Edition. Abingdon & New York: Routledge. https://doi.org/10.4324/9781351234986

Lee, S. 2017. Peer Support for International Doctoral Students in Managing Supervision Relationships. *Journal of International Students* 7,4: 1096 – 1103. Available at: http://doi.10.5281/ZENODO.1035971;

Lee, A. & R. Murray 2013. Supervising Writing: Helping Postgraduate Students Develop as Researchers. *Innovations in Education and Teaching International* 52,5: 558 - 570. At: https://doi.org/10.1080/14703297.2013.866329

Leedy, P.D. & J.E. Ormrod 2019. *Practical Research: Planning and Design*. 12th Edition. Pearson Education.

Lowe, M. 2007. *Beginning Research: A Guide for Foundation Degree Students*. Abingdon & New York: Routledge Publishers. https://doi.org/10.4324/9780203968505

Manyike, T.V. 2017. Postgraduate Supervision at an Open Distance e-Learning Institution in South Africa. *South African Journal of Education* 37,2: 1 - 11. Available at: https://doi.org/10.15700/saje.v37n2a1354

Maybee, J.E. 2020. Hegel's Dialectics. In Zalta, E.N. (ed.): *The Stanford Encyclopedia of Philosophy.* (Winter 2020 Edition.) Available at: https://plato.stanford.edu/archives/win2020/entries/hegel-dialectics/

Mazzocchi, F. 2019. Scientific Research across and Beyond Disciplines: Challenges and Opportunities of Interdisciplinarity. *Science and Society* 20: 3 - 6. Available at: https://doi.org/10.15252/embr.201947682

McKenna, S. & S. Van Schalkwyk 2023. A Scoping Review of the Changing Landscape of Doctoral Education. *Compare: A Journal of Comparative and International Education* 54,6: 984 - 1001. Available at: https://doi.org/10.1080/03057925.2023.2168121

McKenna, T. 2011. Hegelian Dialectics. *Critique* 39,1: 155 - 172. Available at: https://doi.org/10.1080/03017605.2011.537458

Noel, J. & S. Kurgat & J.K. Chang'ach 2022. Turning Doctoral Research Supervision into a Partnership: Towards Promoting Quality Research in African Context. *Canadian Journal of Educational and Social Studies* 2,2: 84 - 93. Available at: https://doi.org/10.53103/cjess.v2i2.35

Norman, R. 1980. *Hegel, Marx and Dialectic: A Debate*. New Jersey: Humanities Press.

Nsibande, R. 2007. Using '*Currere*' to Re-conceptualise and Understand Best Practices for Effective Research Supervision. *South African Journal of Higher Education* 21,8: 1117 - 1125. Available at: https://doi.org/10.4314/sajhe.v21i8.25764

Nuckolls, C.W. 2018. *Paradox and Dialectic in Cultural Knowledge Systems*. Oxford Scholarship Online. Available at: https://doi.org/10.1093/oso/9780198827436.003.0008

Olmos-López, P. & J. Sunderland 2017. Doctoral Supervisors' and Supervisees' Responses to Co-supervision. *Journal of Further and Higher Education* 41,6: 727 - 740. Available at: https://doi.org/10.1080/0309877X.2016.1177166

Olsson, E.J. 2022. Coherentism. *Routledge Book of Philosophy of Memory*. Abingdon, New York: Routledge. https://doi.org/10.1017/9781009053327

Paul, P., Olson, J.K. & R.B. Gul 2014. Co-supervision of Doctoral Students: Enhancing the Learning Experience. *International Journal of Nursing Education Scholarship* 11,1: 31 - 38. Available at: https://doi:10.1515/ijnes-2012-0004

Patton, M.Q. 1990. *Qualitative Evaluation and Research Methods*. Los Angeles, New York & New Delhi: Sage Publishers.

Pinar, W.F. 2019. *What is Curriculum Theory?* 3rd Edition. Abingdon & New York: Routledge Publishers. https://doi.org/10.4324/9781315625683

Pinar, W.F. 2004. *What is Curriculum Theory*? New Jersey: Lawrence Erlbaum Associates Inc.

Pinar, W.F. 1975. The Method of 'Currere'. Paper presented at the University of Rochester: Prepared for the Annual Meeting of the American Educational Research Association, Washington D.C.

Pinnegar, S. & M.L. Hamilton 2020. Working in the Space between: Conundrums in Self-study of Practice Research. In Ergas, O. & J.K. Ritter (eds.): *Exploring Self toward Expanding Teaching, Teacher Education and Practitioner Research*. Bingley, WY, UK: Emerald Publishing Limited.

Polkinghorne, M., J. Taylor, F. Knight & N. Stewart 2023. Doctoral Supervision: A Best Practice Review. *Encyclopedia* 3,1: 46 - 59. Available at: https://doi.org/10.3390/encyclopedia3010004

Pyhältö, K., L. Tikkanen & H. Anttila 2024. The More the Merrier? PhD Supervisors' Perspectives in Engaging in Co-supervision. *Innovations in Education and Teaching International* 61,6: 1460 -1471. Available at: https://doi.org/10.1080/14703297.2023.2258853

Robinson, D. 2019. *Fundamentals without Foundations: Justice in Extreme Cases*. Cambridge: Cambridge University Press.

Ruano-Borbalan, J-C. 2022. Doctoral Education from its Medieval Foundations to Today's Globalisation and Standardisation. *European Journal of Education* 57,3: 367 - 380. Available at: https://doi.org/10.1111/ejed.12522ff.

Segalo, L. 2021. Supervision of Postgraduate Students: A Faculty Case Study of Co-supervision at a University of Technology in South Africa. *Universal Journal of Educational Research* 9,3: 660 - 664. Available at: https://doi.10.13189/ujer.2021.090325.

Smith, B.A. 2013. *Currere* and Critical Pedagogy: Thinking Critically about Self-reflective Methods. *Transnational Curriculum Inquiry (TCI)* 10,2: 3-16. Available at: https://doi.org/10.14288/tci.v10i2.184317

Stynes, P. & P. Pathak 2022. A Research Supervision Framework for Quality and Scalability. In *Proceedings of the 14th International Conference on Computer Supported Education*. Volume 2. Pp. 395 - 403. SciTePress. Available at: https://doi.org/10.5220/0011093900003182

Tambun, A.T., G. Yudoko & L. Aldianto 2024. A Comparative Analysis of

Twelve Research Paradigms across Six Knowledge Acquisitions and Twelve Sources of Knowledge. *Humanities and Social Science Research* 7,3: 23. Available at: https://doi.org/10.30560/hssr.v7n3p23

Ukwoma, S.C. & P. Ngulube 2020. Supervision Practices in Library and Information Science Postgraduate Research in Nigeria and South Africa. *African Jrnl of Library, Archives & Information Science* 30,2: 127 - 141.

Walsh, K., P. Crookes, K. Ford, K. Doherty, L. Andersen, S. Bingham & R. McSherry 2018. 'Just imagine that…': A Solution Focused Approach to Doctoral Research. *International Journal of Teaching and Learning in Higher Education* 30,1: 161 - 171. Available at: https://EJ1169824

Wessler, H. 2020. Constructive Engagement across Deep Divides: What it Entails and How it Changes our Role as Communication Scholars. Powers, M. & A. Russell (eds.): *Rethinking Media Research for Changing Societies.* Cambridge: CUP. https://doi.org/10.1017/9781108886260.010

White, N., J. Milicev, D.R. Bradford, A. Rodger & M. Gardani 2024. The Mental Labyrinth of Postgraduate Research: A Qualitative Study of Postgraduate Mental Health and Wellbeing and the Impact of the Supervisory Relationship. *Higher Education* 87: 1211 - 1226. Available at: https://doi.org/10.1007/s10734-023-01061-5

Wilmot, K. 2021. 'Fail early and fail fast': The Value of Group Supervision for Doctoral Candidates. *Higher Education Research & Development* 41,6: 2108 - 2121. At: https://doi.org/10.1080/07294360.2021.1969543

Wilson-Strydom, M. & M.A Okkolin 2016. Enabling Environments for Equity, Access and Quality Education Post-2015: Lessons from South Africa and Tanzania. *International Journal of Educational Development* 49: 225 - 233. Available at: https://doi.org/10.1016/j.ijedudev.2016.03.010

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