

Dr. Nicky Creux

CURRICULUM VITAE

UPDATED: January 2024

1. GENERAL INFORMATION

Citizenship	South African
Place of birth	Pretoria, South Africa
Language proficiency	South African native English speaker and fluent in Afrikaans
Current Address	Forestry and Agricultural Biotechnology Institute (FABI) Department of Plant and Soil Science University of Pretoria Roper Street Hillcrest, 0083
Current position	Senior Lecturer (<i>Assistant Professor equivalent</i>) FABI and Department of Plant and Soil Science at the University of Pretoria (2019 – current)
E-mail	Nicole.creux@fabi.up.ac.za
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EDUCATION

B.Sc. Molecular Biology, University of Pretoria (2002)
B.Sc. Hons. Genetics, University of Pretoria (2003)
M.Sc. Genetics – *cum laude*, University of Pretoria (2007)
PhD. Genetics, University of Pretoria (2013)
**Title: *In silico* and functional characterization of the
cellulose synthase 8 gene promoter of *Eucalyptus* trees**
Post-doctoral fellowship, University of California, Davis (2018)

Research Interests and Vision:

During my PhD I developed an interest in plant molecular biology with a particular focus on protein-DNA interactions and gene promoter evolution. In my postdoctoral research, I focus on understanding the physiology and regulation of floral organ maturation and how environmental cues interact with the internal circadian clock to modulate these finely tuned processes. Currently my research team, Crop Floral Biology and Environments (CFBE), is focused on understanding how abiotic and biotic stressors manipulate the timing of anthesis and pollination. My vision is to form a strong interdisciplinary team that uses physiology, phenotyping and molecular tools to better understand how plant development is affected by a changing environment, with a special interest in floral development.

2. PUBLICATIONS IN PEER REVIEWED OR REFEREED JOURNALS

Mapfumo P, Buthelezi S, Wilkens M, Swanevelder D, Archer E and CREUX NM. Planting date and environmental effects on *Sclerotinia* head rot progression on sunflower. *Plant Pathology* – ACCEPTED

Mangani R, Gunn KM and CREUX NM, 2023. Projecting the effect of climate change on planting date and cultivar choice for South African dryland maize production. *Agricultural and Forest Meteorology*, 341, p.109695.

Catrice O, Holalu S, Terzić S, Todesco M, CREUX NM, Langlade NB. 2023 Progresses of the international community to understand sunflower–pollinator interactions through multiscale approaches. *OCL* 30 17, DOI: 10.1051/ocl/2023012

Marshall CM, Thompson VL, CREUX NM, Harmer SL. 2023. The circadian clock controls temporal and spatial patterns of floral development in sunflower. *eLife*, 12, p.e80984. (citations = 4)

CREUX NM, Brown EA, Garner AG, Saeed S, Scher CL, Holalu SV, Yang D, Maloof JN, Blackman BK, Harmer SL. 2021. Flower orientation influences floral temperature, pollinator visits and plant fitness. *New Phytologist* 232: 868-879. (citations = 20)

Atamian HS, CREUX NM, Brown EA, Garner AG, Blackman BK, Harmer SL. 2016. Circadian regulation of sunflower heliotropism, floral orientation, and pollinator visits. *Science* 353: 587- 590. (citations = 217)

Spokevicius AV, Taylor L, Melder E, Van Beveran K, Tibbits J, CREUX NM, Bossinger G. 2016. The use of Induced Somatic Sector Analysis (ISSA) for studying genes and promoters involved in wood formation and secondary stem development. *JoVE* 116 doi: 10.3791/54553. (citations = 6)

Hussey SG, Mizrahi E, CREUX NM, Myburg AA. 2013. Navigating the transcriptional roadmap regulating secondary cell wall deposition in plants. *Frontiers in plant science* 4:325. (citations = 149)

CREUX NM, De Castro MH, Ranik M, Maleka MF, Myburg AA. 2013. Diversity and *cis*-element architecture of the promoter regions of *cellulose synthase* genes in *Eucalyptus*. *Tree Genetics and Genomes* 9: 989-1004. (citations = 6)

CREUX NM, Bossinger G, Myburg AA, Spokevicius AV. 2013. Induced somatic sector analysis of *cellulose synthase* (*CesA*) promoter regions in woody stem tissues. *Planta* 237: 799 – 812. (citations = 17)

CREUX NM, Ranik M, Berger DK, Myburg AA. 2008. Comparative analysis of orthologous cellulose synthase promoters from *Arabidopsis*, *Populus* and *Eucalyptus*: evidence of conserved regulatory elements in angiosperms. *New Phytologist* 179: 722 - 737. (citations = 60)

Ranik M, CREUX NM, Myburg AA. 2006. Within-tree transcriptome profiling in wood-forming tissues of a fast-growing *Eucalyptus* tree. *Tree Physiology* 26: 365 - 375. (citations = 30)

In Preparation

Mapfumo P, Wilken M, Archer E, Swanevelder DZH, CREUX NM. Sunflower development, yield quantity, quality and stability are negatively affected at late planting dates

Memela UNN, Fourie G, CREUX NM. The physiological effects of heat stress on anthesis and pollination in domesticated sunflowers.

Mapfumo P, Berry J, Odendaal S, Wilken M, Archer E, Swanevelder DZH, CREUX NM. Sunflower floral trait adaptation to heat stress maintains pollination

Mapfumo P, Wilken M, Archer E, Swanevelder DZH, CREUX NM, Read D. First report of Bidens Mottle Virus on sunflower in South Africa

Mangani R, Mazarura J, Matlou S, Marquart A, Archer E, Mapfumo P, CREUX NM. Climate-maize crop relationships in South Africa’s main production provinces and the impact of recent climate trends.

Cilliers JC, Mangani R, Nsibo D, CREUX NM. The effect of planting date on different maturing maize cultivars as well as Northern Leaf Blight under dryland and irrigated conditions.

Matibela OE, Nsibo D, Swanevelder DZH, CREUX NM. High-throughput phenotyping to assess the effect of planting date on maize growth and development.

3. PUBLICATIONS IN CONFERENCE PROCEEDINGS

Mthembu S, Maes WH, Taylor N, Mangani R, CREUX NM 2023. Remote sensing of maize development and yield response to environmental stress across planting dates in South Africa. *Authorea Preprints*.

Mathibela O, Maes WH, Nsibo DL, Swanevelder DZ, CREUX NM 2023. The effects of planting date on maize growth and development using unmanned aerial vehicle data. *Authorea Preprints*.

Mbere T, Swanevelder DZ, Pierneef R, CREUX NM 2023. Automated high throughput plant phenotyping to assess sunflower planting dates. *Authorea Preprints*.

CREUX NM, De Castro MH, Ranik M, Spokevicius A, Bossinger G, Maritz-Olivier C, Myburg AA 2011. *In silico* and functional characterization of the promoter of a Eucalyptus secondary cell wall associated cellulose synthase gene (*EgCesA1*). *BMC Proceedings* 5(Suppl7):P107.

CREUX NM, Myburg AA, Bossinger G, Spokevicius AV 2011. Analysis of cellulose synthase (CesA) promoter function in trees using induced somatic sector analysis (ISSA). *BMC Proceedings* 5(Suppl7):O41.

Botha J, Pinard D, CREUX NM, Hussey SG, Maritz-Olivier C, Spokevicius AV, Bossinger G, Mizrachi E, Myburg AA 2011. Characterising the role of the *Eucalyptus grandis* SND2 promoter in secondary cell wall biosynthesis. *BMC Proceedings* 5(Suppl7):P105.

4. Book Chapters

CREUX NM, Harmer SL. 2019. Circadian Rhythms in Plants. Editor: Ronald PC, *Cold Spring Harb Perspect Biol* doi: 10.1101/cshperspect.a034611. (citations = 117)

5. Popular articles

When is too late to plant? CREUX, Du Toit, Mathobisa and Ceronio, SA Grain Mag, Nov 2022, <https://sagrainmag.co.za>

International Sunflower Conference: A global overview for industry partners, NICKY CREUX, Oil Seed Focus Sept 2022, <https://www.opot.co.za>

6. PATENTS FILED

Myburg AA, Ranik M, CREUX NM. 2007. Plant Promoters. PCT/IB2007/052002 (SA Patent application 2008/10878).

7. REVIEWS

Journals reviewed for

1. European Journal of Plant Pathology
2. PeerJ
3. New Phytologist
4. South African Journal of Botany
5. Phytoparasitica
6. Plant-Environment Interactions
7. South African Journal of Science and Technology
8. Journal of Pollination Ecology
9. American Journal of Botany
10. Plant Genetic Resources
11. Tree Physiology
12. Molecular Biology and Evolution

Grant and Rating agencies reviewed for

1. Swiss National Science Foundation – Ambizione proposal review
2. NRF (National Research Foundation)- Rating review

(<https://publons.com/researcher/3955004/nicky-creux/>)

8. INVITED PRESENTATIONS

CREUX NM. 2023. The delicate balancing act of climate control during flowering, pollination and seed development in sunflower. *Corteva* Sunflower Strategy Meeting. 20 September. Kroonstad, South Africa

CREUX NM. 2023. The delicate balancing act of climate control during flowering, pollination and seed development in sunflower. *Agricol* Sunflower Strategy Meeting. 31 May. Potchefstroom, South Africa

CREUX NM. 2023. Review of the 20th International Sunflower Conference with special focus on pollination. Sunflower Symposium. 25 April. Pretoria, South Africa.

CREUX NM, Mapfumo P. 2022. When to flower? Understanding environmental factors associated with planting date that impact sunflower development and Sclerotinia head rot progression. [Rhizobia Symposium and Sclerotinia Discussion](#). 7 September. Pretoria, South Africa

CREUX NM, Brown EA, Garner AG, Saeed S, Scher CL, Holalu SV, Yang D, Maloof JN, Blackman BK, Harmer SL. 2022. Flower orientation influences floral temperature, pollinator visits and plant fitness. *New Phytologist* NOW Circadian Clocks (Online – Virtual) 13 April. <https://doi.org/10.52843/cassyni.Onkfjr>

CREUX NM. Plant and flower microclimates co-ordinate plant development and plant-pollinator/pathogen interactions. 2020, Donald Danforth Plant Science Center, St Louis, MO, USA, Departmental virtual seminar series 14th October

CREUX NM. Environmental cues and the internal circadian clock regulate flowering and co-ordinate pollinator visits in sunflower. 2017, Genetics Department, University of Pretoria, Pretoria, South Africa, Genetics Departmental seminar series, 19th July

CREUX NM. Environmental cues and the circadian clock interact to regulate the timing of floral organ maturation and pollinator visits in sunflower. 2017, Department of Plant Biology, University of California, Davis, USA, Plant biology graduate group and postdoctoral seminar series, 14th March

CREUX NM. The circadian rhythms regulating heliotropism, floral development and pollinator visits in Helianthus. 2015, Genetics Department, University of Pretoria, Pretoria, South Africa, Genetics Departmental seminar series, 9th July

CREUX NM. Genome sequencing data mining project proposal. 2012, Computer Science Department, University of Pretoria, Pretoria, South Africa, Honours course guest lecturer, 22nd August

9. PARTICIPATION IN CONFERENCES, WORKSHOPS AND SHORT COURSES

Conferences

Mathibela O, Maes WH, Nsibo DL, Swanevelder DZ, CREUX NM 2024. The effects of planting date on maize growth and development using unmanned aerial vehicle data. ARC Conference, Pretoria, South Africa, 12-14 February (Student Poster Presentation)

Mbere T, Swanevelder DZ, Pierneef R, CREUX NM 2024. Automated high throughput plant phenotyping to assess sunflower planting dates. ARC Conference, Pretoria, South Africa, 12-14 February (Student Poster Presentation)

Mapfumo P, Buthelezi S, Wilkens M, Swanevelder D, Archer E and CREUX NM. 2022 Planting date and environmental effects on Sclerotinia head rot progression on sunflower. 52nd SASPP congress, 1-3 August. University of Pretoria, South Africa (Student Poster Presentation)

CREUX NM, Marshall C, Memela U, Mapfumo P, Harmer S 2022. The delicate balancing act of climate control during flowering, pollination and seed development in sunflower. 20th International Sunflower Conference, 20-23 June. Novi Sad, Serbia (**Plenary speaker**)

Mapfumo P, Buthelezi S, Wilken M, Swanevelder ZH, Archer E, CREUX NM, 2022. Planting date and environments affect sunflower development, yield and Sclerotinia head rot progression. 20th International Sunflower Conference, 20-23 June. Novi Sad, Serbia (Student Poster Presentation – **Award** Runner-up best poster)

Mapfumo P, Buthelezi S, Wilken M, Swanevelder ZH, Archer E, CREUX NM, 2022. Planting date and environments effect on Sclerotinia head rot progression. 33rd SANSOR Congress, 8-9 June. Cape Town, South Africa (Student Poster Presentation)

Mangani R, Gunn KM, CREUX NM 2021. The predicted effect of climate change on planting date and cultivar choice for maize production in South Africa. GAPSVM 14 - International Conference Africa and its ecologies, online – Virtual, 10 December. University of Ghent (Postdoc Oral Presentation)

Steyn W, CREUX NM, Slippers B. 2021. Plant Phenotyping for Agriculture. IEEE – 5G World Forum, online – Virtual, 13-15 October. (Co-presenter, Recorded Oral Presentation)

Memela U, Fourie G, CREUX NM 2021 The physiological impact of heat stress conditions during anthesis and pollination in domesticated sunflowers. 1st Sunflower-Pollinator interactions web conference, International Sunflower Association (ISA), Online – Virtual, 6-7 October. (Student Oral Presentation)

CREUX NM 2021 Sunflower Anthesis: The delicate balancing act of climate control. 1st Sunflower-Pollinator interactions web conference, International Sunflower Association (ISA), Online – Virtual, 6-7 October. (Oral Presentation)

Memela U, Fourie G, CREUX NM 2021. The physiological impact of heat stress conditions during anthesis and pollination in domesticated sunflowers. North American Plant Phenotyping Network (NAPPN), Online – Virtual, 16-19 February. (Student Poster Presentation)

CREUX NM, Mangani R, Mapfumo P, Wilken M, Archer E, Ceronio G, Maali S, Du Toit D, Swanevelder D 2021. Assessing the effect of planting date on sunflower and maize development and yield in South Africa. North American Plant Phenotyping Network (NAPPN), Online – Virtual, 16-19 February. (Oral Presentation)

CREUX NM, Harmer S 2018. The circadian clock and environmental cues co-ordinate flower maturation and pollinator visits in sunflower. American Society of Plant Biologists (ASPB), Montreal, Quebec, 14-18 July. (Oral Presentation CS-22-2)

CREUX NM, Harmer S 2018. The circadian clock and environmental cues co-ordinate flower maturation and pollinator visits in sunflower. American Society of Plant Biologists (ASPB), Montreal, Quebec, 14-18 July. (Poster Presentation 900-002)

CREUX NM, Harmer S 2017. Environmental cues and the circadian clock regulate floral organ maturation and pollinator visits in sunflower. American Society of Plant Biologists (ASPB), Honolulu, Hawaii, 24 – 28 June. (Poster presentation 900-047)

CREUX NM, Holalu S, Moxley D, Tudesco M, Tricoli D, Blackman B, Rieseberg L, Harmer S 2017. Optimization of Agrobacterium-mediated transformation and tissue culture protocols for sunflower. American Society of Plant Biologists (ASPB), Honolulu, Hawaii, 24 – 28 June. (Poster presentation 200-006)

CREUX NM, Harmer S 2017. Environmental cues and the internal circadian clock regulate flowering and co-ordinate pollinator visits in sunflower. 3rd UC Davis postdoctoral research symposium, Davis CA, 12 April 2017. (Oral presentation – Best speaker of the session)

CREUX NM, Atamian H, Brown E, Blackman B, Harmer S 2015. East or west which way is best? Floral head orientation and its effect on floret development and pollinator visits. 1st UC Davis postdoctoral research symposium, Davis CA, 14 May 2015. (Poster presentation)

CREUX NM, De Castro MH, Ranik M, Spokevicius A, Bossinger G, Maritz-Olivier C, Myburg AA 2013. DNA-protein interactions modulating *Eucalyptus grandis cellulose synthase 8* gene expression. IUFRO tree Biotechnology Conference, Asheville, NC, USA, 26 July – 1 June (Poster presentation)

CREUX NM, Ranik M, De Castro MH, Spokevicius A, Bossinger G, Maritz-Olivier C, Myburg AA 2012. Understanding the transcriptional regulation of the *Eucalyptus Cellulose synthase1* gene. 38th Conference of South African Association of Botanists (SAAB), Pretoria, 15 - 18 January. (Oral presentation)

CREUX NM, De Castro MH, Ranik M, Spokevicius A, Bossinger G, Maritz-Olivier C, Myburg AA 2011. *In silico* and functional characterization of the promoter of a *Eucalyptus* secondary cell wall associated cellulose synthase gene (*EgCesA1*). IUFRO tree Biotechnology Conference, Arraial d'Ajuda, Bahia, Brazil, 26 June - 2 July (Poster presentation – Runner-up poster award)

CREUX NM, De Castro MH, Ranik M, Myburg AA 2010. Functional characterization of the diversity and architecture in *Eucalyptus* Cesa promoters. South African Genetics Society (SAGS) Conference, Bloemfontein, 8 – 11 April. (Oral presentation - Best PhD oral presentation)

CREUX NM, De Castro MH, Ranik M, Myburg AA. 2010. Diversity, architecture and function of cis-regulatory sequences in the promoters of cellulose synthase genes in *Eucalyptus* plantation trees. American Society of Plant Biologists (ASPB), Montreal, Canada, 31 July - 4 August. (Poster presentation 08020)

De Castro MH, CREUX NM, Ranik M, Mathabatha FM, Myburg AA. 2009. Molecular evolution of the promoter regions of cellulose synthase genes in *Eucalyptus*. IUFRO tree Biotechnology Conference, Whistler, Canada, 28 June - 2 July. (Poster presentation)

CREUX NM, Ranik M, Myburg AA. 2007. Characterization of the promoter regions of six cellulose synthase genes in *Eucalyptus grandis*. American Society of Plant Biologists (ASPB), Hilton hotel, Chicago, Ill, 7 - 11 July. (Poster presentation 36046)

Ranik M, CREUX NM, Myburg AA. 2005. Transcript profiling across the *Eucalyptus* woody stem. American Society of Plant Biologists (ASPB) Conference, abstract 43, Washington State Convention and Trade Center, Seattle, WA, 16 – 20 July. (Poster presentation)

Ranik M, CREUX NM, Myburg AA. 2004. Transcriptome analysis of xylogenesis in *Eucalyptus* using cDNA-AFLP and LI-COR automated DNA analysers. Plant & Animal Genome XII Conference P610, San Diego, CA, 10 – 14 January. (Poster presentation)

Ranik M, CREUX NM, Myburg AA. 2004. High-throughput cDNA-AFLP profiling of gene expression during xylogenesis in *Eucalyptus*. South African Genetics Society (SAGS) Conference, Stellenbosch, 4 – 7 April. (Poster presentation)

Workshops and short courses

Basics of Science Communication Training 2021, Pretoria – Virtual, Department of Marketing and Communication (University of Pretoria)

Basics of Social Media Training 2021, Pretoria – Virtual, Department of Marketing and Communication (University of Pretoria)

ClickUP (Black Board Collaborate) Assessment training 2020, Pretoria, Enterprises@UP, Professional Development (University of Pretoria)

Turnitin and Plagiarism training 2020, Pretoria, Enterprises@UP, Professional Development (University of Pretoria)

Image Analysis Methods for Biologists 2020, Online, Future Learn (University of Nottingham)

UP Academic Induction Course 2019, 18th-20th June, Pretoria, Professional Development (University of Pretoria)

R – club 2017, Davis, USA, Spring Quarter, Presented by Dr Stacey Harmer (University of California, Davis)

Writing National Science Foundation Grants: Part 1 2017, Davis, USA, 13 February, Presented by Matt Oliver and Julia Singleton (University of California, Davis)

Grant Writing: One step at a time 2016, Davis, USA, 16 November, Presented by Dr Melissa Bender (University of California, Davis)

Understanding Learning Styles for Leadership Development 2016, Davis, USA, 19th October, Presented by Elaine Fukuhara Schilling (Pinehurst Consulting)

Seminar on Professional Integrity in the Contemporary University 2016, Davis, USA, Spring Quarter, Presented by Dr Julia Menard-Warwick (University of California, Davis)

Seminar on College Teaching 2015, Davis, USA, Fall Quarter, Presented by Dr Cara Harwood Theisen (University of California, Davis)

Genome Annotation Workshop 2012, Pretoria, South Africa, 27th February – 2nd March, Presented by Dr Lieven Sterck (University of Ghent, Belgium)

10. OUTREACH

FABI Science Communication 2023. Discussed how to use the different social media platforms for science communication. 19th May.

NAMPO Harvest Day – 16-19 May 2023. Ms Mapfumo and Mr Cilliers presented our research team and engaged with the South African farming communities.

Feedback session – Maize working group, Grain South Africa (GrainSA) 31st January 2023. Producers meeting, Bothaville, South Africa

Publishing and Science Communication Discussion Session 2022 Hosted Prof Sophien Kamoun and discussed open access publishing and effective science communication. 4th August.

FABI Science Communication workshop 2022. Discussed how to use the different social media platforms for Science communication. 29th June.

NAMPO Harvest Day – 16-20 May 2022. Dr Creux, Dr Mangani and Ms Mathibela presented research and engaged with the South African farming communities.

Feedback Session – Maize Trust 29th October 2021. Online - Virtual

Feedback Session – Maize working group, Grain South Africa (GrainSA) 3rd February 2021. Producers meeting, Online - Virtual

Invited Judge for FameLab Heat 19-20 on Plant Health at FABI 2020. University of Pretoria, FABI, 5th February

Participated in Woman in Plant Biology video project 2020. American Society of Plant Biology (ASPB), invited by the ASPB Woman in Plant Biology Committee

Participant in Woman in Biotech Podcast panel 2020. BioSafetySA at University of Pretoria

Photo Publication in *New York Times* Science column. How Sunflowers Follow the Sun, Day After Day, Trilobites. Joanna Klein, 4 August 2016

American Society of Plant Biology (ASPB) volunteer at AAAS Family Science Day: Communicated with children and families about the principles of plant science, plant science education and the joys of plant science research (2015)

Work Features and News stories

Wat is die invloed van sonneblomme se sonkykery op sade? Engela Duvenage, Landbou Weekblad, 31st Dec 2021, <https://www.landbou.com> (Afrikaans Farmers weekly)

The scientific night shift. Sam Kean, Science 354: 988-991, [DOI: 10.1126/science.354.6315.988](https://doi.org/10.1126/science.354.6315.988)

Maize planting patterns would change under climate change conditions. Engela Duvenage, Nature Africa, *Research Highlight*, <https://www.nature.com/articles/d44148-024-00017-w>

11. OTHER OUTPUTS AND AWARDS

Ben Barrs Spotlight Award 2023 from eLife,

Merit award of the OAC and OPDT 2022 for Best article in a scientific journal

UC Davis Postdoctoral Research Symposium - Best Oral Presentation Award 2017. The best speaker of the session at the annual UC Davis Postdoctoral Research Symposium.

Professors For The Future (PFTF) fellow 2015/2016. A fellowship and programme geared towards preparing postdoctoral fellows and graduate students for leadership roles and academia.

Runner-up Poster Award 2011. IUFRO tree Biotechnology Conference, Arraial d'Ajuda, Bahia, Brazil, 26 June - 2 July

FABian of The Year Award 2010. For the student who has contributed to the Forestry Agricultural and Biotechnology Institute (FABI) both scientifically and in service during their post graduate career (Awarded a ticket to any conference abroad)

Best PhD Oral Presentation 2010. South African Genetics Society (SAGS) 2010 Conference, Bloemfontein, 8 – 11 April

FABI Student Mentorship Award 2009. Voted for by the students of the Forestry Agricultural and Biotechnology Institute (FABI) as the best mentor

Best FABI Featured Article 2008. For the student writing the best article describing a published work to the public

Best FABI Student Article 2008. For the student publishing the article with the highest impact factor in the Forestry Agricultural and Biotechnology Institute (FABI)

Academic Honorary Colours 2007. For completion of the MSc degree with distinction

12. SERVICE AND ADMINISTRATIVE DUTIES

International Sunflower Association board member (2022 – current): Goal to help further sunflower research and development on a global level.

FABI Faculty liaison for FABI Social Media Unit (2021-current): Coordinate, mentor and support students running FABI Social Media platforms

FABI Management Committee member (2019-current): Actively participate in daily management and running of FABI activities

CPHB (Centre of Excellence in Plant Health Biotechnology) Management Committee member (2019-current): Actively participate in daily management and running of CPHB activities

Member of the Department of Plant and Soil Sciences Teaching and Learning Committee in (2020-current): Represent the Biotechnology Division in matters relating to teaching and learning in the Department

Member of the Department of Plant and Soil Sciences Transformation Committee in (2019-2022): Duties included organising events during UPs antidiscrimination week for the Department

Faculty member of the Department of Plant and Soil Sciences Postgraduate Symposium Organising Committee (2019): duties included coordinating scientific programme, registration and scheduling

Vice Chair of the UC Davis Postdoctoral Scholars Association (2017-2018): Duties include organising our annual research symposium

UC Davis Postdoctoral Research Symposium 2018 organising committee chair: Duties include assembling and managing the organising committee, fundraising for the event (Raised \$15 350) and coordinating the logistics, advertising and scientific programming (October 2017 - April 2018)

UC Davis Postdoctoral Research Symposium 2016 organising committee chair: Duties included Assembling and managing the organising committee, fundraising for the event (Raised \$18 000) and coordinating the logistics, advertising and scientific programming (May 2015 - May 2016)

UC Davis Postdoctoral Research Symposium organising committee member: Member of the UC Davis Postdoctoral Research symposium organising committee involved in planning and preparation for the event (14th May 2015)

Plant postdoctoral seminar series session moderator (UCDavis): Moderated the postdoctoral seminar sessions for spring and summer quarters (2015)

FMG research group social coordinator: Organized lab socials, year-end functions and group activities (2004-2010)

Administrative Assistant: Dr Naidoo's administrative assistant helping with filing and purchasing within her research group (2007)

University of Pretoria LightCycler Facility Administrator: Administrator of the LightCycler facility, coordinating users, managing consumables, organising training workshops, managing user accounts and billing (2007)

Genetics Seminar Committee member: Arranged internal and external speakers for the University of Pretoria Genetics Department Seminar series (2004 - 2005)

University of Pretoria Student Representative Council (SRC) Member (2000 - 2002)