# ­Luki-Marié Scheepers

Dormer Avenue 1149, Queenswood, Pta, 0186 ● 0764498922 ● luki-marie.scheepers@fabi.up.ac.za

\_\_ \_\_ 2023

Dear \_\_\_\_\_\_\_,

I am writing to apply for \_\_\_\_\_\_\_\_\_\_\_\_\_. These tasks offer me the opportunity to \_\_\_\_\_\_\_\_\_. Since \_\_\_\_\_\_\_\_\_\_\_\_\_, it is prudent to also help and learn \_\_\_\_\_\_\_\_ that require various other techniques and considerations than those which I manage for my project. Skills obtained from this opportunity \_\_\_\_\_\_\_\_\_\_\_.

\_\_\_\_\_\_

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Thank you for your time and consideration. I look forward to hearing the outcome soon.

Sincerely,

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Luki-Marié Scheepers

PhD (Chemistry) student

FABI, University of Pretoria

# Personal Details

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| **Name:** | Luki-Marié Scheepers |
| **Identification number:** | Available on request |
| **Address:** | Queenswood, Pretoria, Gauteng, South Africa, 0186 |
| **Position:** | PhD student |
| **Supervisors:** | Prof Jeremy Allison and Prof Bernard Slippers  |
| **Student number:** | 14177952 |
| **Email address:**  | luki-marie.scheepers@fabi.up.ac.za |

# Work Experience

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| --- | --- |
| Jan 2023 –  | **GC /Chemical Analysis Facility Attendant** FABI | Paid position | University of Pretoria |
|  |  |
| June 2023-Nov 2023 | **Chemistry for Engineering students: Tutorial tutor**First year students | Contract | University of Pretoria |
|  |  |
| Feb 2023-May 2023 | **Chemistry for Medical and Veterinary Science students: Practical Demonstrator**First year students | Contract | University of Pretoria |
|  |  |
| Jan 2022 – Dec 2022 | **GC /Chemical Analysis Facility Attendant** FABI | Paid position | University of Pretoria |
|  |  |
| May 2022 – June 2022 | **Inorganic Chemistry Practical Demonstrator**Third year students | Contract | University of Pretoria |
|  |  |
| June 2021-Nov 2021 | **Chemistry Tutorial marker** First year students | Contract | University of Pretoria |
|  |  |
| Jan 2021 – Dec 2021 | **GC /Chemical Analysis Facility Attendant** FABI | Paid position | University of Pretoria  |
|  |  |
| Jun 2019 – Nov 2019 | **Biochemistry Practical Demonstrator** Second year students | Contract | University of Pretoria |
|  |  |
| Jul 2017 – Nov 2017 | **Inorganic Chemistry Practical Demonstrator**Third year students | Contract | University of Pretoria |
|  |  |
| Feb 2017 – Jun 2017 | **Inorganic Chemistry Practical Demonstrator**Third year students | Contract | University of Pretoria |

# Education

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| --- | --- |
| Sept 2020 – | [**PhD (Chemistry)**](https://www.fabinet.up.ac.za/index.php/people-profile?profile=1290)Thesis entitled: “Pheromone development for three defoliating pests of South African forestry plantations”| Advisors: Prof. Bernard Slippers, Prof. Jeremy Allison and Prof. Egmont Rohwer | University of Pretoria |
|  |  |
| Jan 2018 – June 2020 | **MSc (Chemistry)\*** |
|  | Dissertation entitled: “Semiochemical studies of *Gonipterus sp. 2* (Curculionidae) and pheromone-based trapping of *Nudaurelia clarki* (Saturniidae) in South Africa” | Advisors: Dr. Marc Bouwer, Prof. Bernard Slippers and Prof. Egmont Rohwer | University of Pretoria |
|  |  |
| Jan 2017 – Dec 2017 | **BScHons (Advanced Chemistry)** |
|  | Organic Chemistry Project entitled: “Analysis of temperature, substrate and concentration effects on regioselectivity of 2,6-substituted purines in N-alkylation reactions” Advisors: Dr. Lynne Pilcher| University of Pretoria |Analytical Chemistry Project entitled: “Identification and Isolation of potential bioactive compounds from *Hypoestes aristata* by UPLC-QTOF-MS and HPLC-SPE/NMR” Advisors: Dr. Mamoalosi Selepe and Prof. Vinesh Maharaj | University of Pretoria |
|  |  |
| Jan 2014 – Dec 2016 | **Undergraduate degree in BSc (Biochemistry)** |
|  | Final year subjects: Physical Chemistry, Analytical Chemistry, Organic Chemistry, Inorganic Chemistry, Molecular basis of disease, Biocatalysis and integration of metabolism, Cell structure and function, Macromolecules of life: structure-function and bioinformatics | University of Pretoria |
| \*Academic transcript available on request |  |

# Research Outputs and publications

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| **Poster/ Oral presentations** | L. Scheepers, B. Slippers, E. R. Rohwer and J. D. Allison. “Sex pheromone of *Nudaurelia spp.* in South Africa (Lepidoptera: Saturniidae)”| Oral presentation |American Chemical Society (ACS) Annual Fall meeting | Early Career Symposium | Online | 13-17 Aug 2023 |
|  |  |
|  | L. Scheepers, B. Slippers, E. R. Rohwer and J. D. Allison. “The Wattle bagworm pheromone: Analytical investigations and development of a pest management tool”| Poster presentation | 23rd Congress of the Entomological Society of Southern Africa (ESSA) | Stellenbosch, South Africa | 11-14 July 2023 |
|  |  |
|  | L. Scheepers, B. Slippers, E. R. Rohwer and J. D. Allison. “A journey of pheromone discovery of the wattle bagworm”\*\*Suid-Afrikaanse Wetenskap en Kunste Studentesimposium (SAAWK) | Pretoria, South Africa | 3-4 November 2022 |
|  |  |
|  | L. Scheepers, B. Slippers, E. R. Rohwer, J. D. Allison, J. E. Bello and M. C. Bouwer. “The pheromone of the pine emperor moth, *Nudaurelia clarki* (Lepidoptera: Saturniidae)”\*\*| Oral presentation | IUFRO Working Party 7.03.16 GraduateStudent Webinar Series| Online | 24 January 2022 |
|  |  |
|  | L. Scheepers, J. D. Allison, B. Slippers, E. R. Rohwer, P. M. Mc Millan, J. E. Bello and M. C. Bouwer. “The major pheromone component identity of the Pine Emperor moth, Nudaurelia clarki (Lepidoptera: Saturniidae), is confirmed”\*\*| Oral presentation | 36th Annual meeting of the International Society of Chemical Ecology (ISCE) Poster session 4 #49| Online | 5-10 September 2021 |
|  |  |
|  | L. Scheepers and Q. Guignard. “Research and Development of new attraction tools for insect pests at FABI” |Oral presentation| 32nd Annual meeting of the Tree Protection Co-Operative Programme (TPCP) and the DSI NRF Centre Of Excellence In Plant Health Biotechnology (CPHB) | 4 May 2021 |
|  |  |
|  | L. Scheepers, B. Slippers, E. R. Rohwer, J. D. Allison, J. E. Bello and M. C. Bouwer. “Pheromone field trapping of *Nudaurelia clarki* (Saturniidae) in South African pine plantations”\*\*| Oral presentation | Entomological Society of America (ESA) Annual meeting | Online | 11- 25 November 2020 |
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|  | L. Scheepers, B. Slippers, M.C. Bouwer and E.R Rohwer. “Feromone van die denneboom Pou-oogmot” (“Pheromones of the Pine Emperor moth”)| Poster presentation | Suid-Afrikaanse Wetenskap en Kunste Studentesimposium (SAAWK) | Pretoria, South Africa | 25- 26 October 2018 |
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|  | Scheepers L., Maharaj V. and Selepe M.A. “The identification and isolation of potential bioactive compounds from *Hypoestes aristata* by means of hyphenated modern instrumentation” | Poster presentation |Suid-Afrikaanse Wetenskap en Kunste Studentesimposium (SAAWK) | Pretoria, South Africa | 2-3 November 2017 |
|  |  |
| **Awards** | One of three student finalists representing Africa| Oral presentation | IUFRO Working Party 7.03.16 Graduate Student Webinar Series| Online | 5 February 2022 |
|  |  |
|  | Second place in poster session| Poster presentation |Suid-Afrikaanse Wetenskap en Kunste Studentesimposium (SAAWK) | Pretoria, South Africa | 2-3 November 2017 |
|  |  |
| **Publications** | Scheepers L., Allison J.D., Slippers B., Rohwer E.R., Mc Millan P.M., Bello J.E., Bouwer M.C. (2023). Pine Emperor moths from KwaZulu-Natal use the same pheromone component previously isolated from *Nudaurelia cytherea* (Lepidoptera: Saturniidae) from the Western Cape. African Entomology 31 (2023): 1-9\*\* |
|  |  |
|  | Bouwer M.C., Scheepers L., Slippers B., Rohwer E.R., Allison J.D. (2021) The Sex Pheromone of the Pine Brown‑Tail Moth, *Euproctis terminalis*(Lepidoptera: Erebidae). Journal of Chemical Ecology 47: 1-8.\*\* |
|  |  |
|  | Scheepers L., Allison J.D., Bouwer M.C, Rohwer E.R., Slippers B. (2020) Pheromones as management tools for non-Scolytinae Curculionidae: development and implementation considerations. Southern Forests: a Journal of Forest Science 82: 202-214.\*\* |
|  |  |
|  | Ramabulana T., Scheepers L, Moodley T. Maharaj V.J., Stander A., Gama N., Ferreira D., Sonopo M.S. and Selepe M.A. (2020) Bioactive Lignans from Hypoestes aristata. Journal of Natural Products 83:2483-2489\*\* |
|  |  |
|  | Scheepers L., Slippers B., Bouwer M.C. and Rohwer E. “Feromone van die denneboom Pou-oogmot” (Pheromones of the Pine Emperor moth)|Poster Summary Publication | Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie | Pretoria, South Africa | 2019\*\* |
|  |  |
|  | Scheepers L., Maharaj V. and Selepe M.A. “The identification and isolation of potential bioactive compounds from *Hypoestes aristata* by means of hyphenated modern instrumentation” | Poster Summary Publication | Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie | Pretoria, South Africa | 2018\*\* |
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| **Thesis** | Scheepers L. (2020). Semiochemical studies of *Gonipterus* sp. 2 (Curculionidae) and pheromone-based mass-trapping of *Nudaurelia clarki* (Saturniidae) in South Africa. |MSc|University of Pretoria| Pretoria| http://hdl.handle.net/2263/74741\*\* |
| \*\*Published pdf’s available on request |

# Scholarships

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| --- | --- |
| **June 2020 – Dec 2022** | DSI-NRF Innovation Doctoral Scholarship | R120 000 p.a.\*\*\* |
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| **Jan 2017 – Dec 2019** | Department of Science and Technology National Research Foundation (DST-NRF) Innovation Master’s Scholarship | R90 000 p.a.\*\*\* |

\*\*\*Grant letters available on request

# Leadership experience

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| --- | --- |
| Jan 2021 –  | **FABI MANCOM Student Representative**Forestry and Agricultural Biotechnology Institute (FABI) | University of Pretoria |
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| Jan 2022- March 2023 | **FABI Lab manager**Forestry and Agricultural Biotechnology Institute (FABI) | University of Pretoria |
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| Apr 2022 – Apr 2023 | **Social Club member** Forestry and Agricultural Biotechnology Institute (FABI) | University of Pretoria  |
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| Apr 2018 – Apr 2019 | **Social Club member** Forestry and Agricultural Biotechnology Institute (FABI) | University of Pretoria  |
|  |  |
| Apr 2016 – Apr 2017 | **Student Faculty Sport Organizer: men and women sports**Faculty House of Natural and Agricultural Sciences Faculty | University of Pretoria |
|  |  |
| Jan 2014 – Jun 2014 | **Biochemistry Class representative**Second year students | University of Pretoria |
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| Jan 2013 – Dec 2013 | **Head girl – culture**Hendrik Verwoerd High School | Pretoria |

# Certifications:

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| --- | --- |
| **Oct-Nov 2020** | Introduction to SPSS for beginners| Dr. D. Moyo | Online sessions | University of Pretoria Library| University of Pretoria |
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| **Feb 2019** | Introduction to R | Dr. Joey Hulburt | Contact sessions | Forestry and Agricultural Biotechnology Institute (FABI) | University of Pretoria |
|  |  |
| **Aug 2018** | Introduction to the Tidyverse Course (basic programming)| Online Datacamp training |

# Extracurricular interests

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| --- | --- |
| **May 2019 – Oct 2022** | Ballroom and Latin competitive dancing |
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| **Jan 2015 – Dec 2018** | Student Symphony orchestra (UPSO) | University of Pretoria |