

## CIRRICULUM VITAE: TRUDIE STRAUSS (NÉE SCHUTTE)

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### PROFILE

German Lecturer at the University of the Free State, Bloemfontein, South Africa. Research interests:  
Mathematical Statistics with focus on language data, Teaching German as a Foreign Language.

### EDUCATION

University of the Free State, Bloemfontein, South Africa

**PhD in Mathematical Statistics** **2022**

*Investigating the Power Law Behaviour of Word Frequency Distributions across Languages.*

Stellenbosch University, South Africa

**M. A. in Technology in Language Learning** **2015**

*Thesis: Investigating the Implementation of a Blended Learning Approach in teaching German to Beginners using Moodle as an Online Learning Platform.*

University of the Free State, Bloemfontein, South Africa

**M. Sc. in Mathematical Statistics** **2012**

*Thesis: Statistical Classification of Languages: Generalising Ward's Method for Use with Manhattan Distances*  
*Cum Laude*

University of the Free State, Bloemfontein, South Africa

**B. A. Honors in German** **2012**

*Cum Laude*

University of the Free State, Bloemfontein, South Africa

**B. Sc. Honors in Mathematical Statistics** **2010**

*Cum Laude*

University of the Free State, Bloemfontein, South Africa

**B. Com in Actuarial Sciences** **2009**

*Cum Laude*

### SCHOLARSHIPS AND FUNDING

NRF Knowledge Interchange and Collaboration Grant **Awarded 2017**

SASA/NRF Crisis in Academic Statistics Scholarship **Awarded 2015**

EUROSA Scholarship (Erasmus Mundus): PhD **Awarded 2015**

EUROSA Scholarship (Erasmus Mundus): M. A. **Awarded 2013**

DAAD Sur Place Scholarship: German **Awarded 2012**

### INTERNATIONAL RESEARCH VISITS AND COLLABORATION

Leipzig University: Institute for Bioinformatics **2019**

Leipzig University: Institute for Bioinformatics **2015 - 2016**

#### POSTGRADUATE SUPERVISION:

Department of Afrikaans and Dutch, German and French,  
University of the Free State, Bloemfontein, South Africa

**Supervision: M. A. Dissertation (German Teaching in South African Context) 2021 -**

#### COURSES TAUGHT:

Department of Afrikaans and Dutch, German and French,  
University of the Free State, Bloemfontein, South Africa  
Postgraduate

**GERD 6808: Deutsch Didaktik: Lehrkompetenz und Unterrichtsgestaltung 2019**

**GERE 6808: Supervision Honours Research Report 2020**

Undergraduate

**GERM 1514/1624: Basic German (Language component) 2017 -**

**GERB 2514/2624: Basic German (Language component) 2020 -**

**GERM 2704: Intermediate German Language and Culture studies 2020 -**

**GERB 3708: Upper-Intermediate German Language and Culture studies 2021 -**

**GERM 3708: Advanced German Language and Culture studies 2021 -**

**GERM 2614/2724: Intermediate German (Language component) 2017 - 2019**

**GERM 3718/3728: Advanced German (Language component) 2017 - 2020**

Department of Mathematical Statistics and Actuarial Sciences,  
University of the Free State

**STSC 6815/7910 Honours / Masters Course: Categorical Data Analysis 2015**

**EBCS 51405/52405 First Year Economic Business Calculations and Statistics 2014**

Grey College Secondary School, Bloemfontein, South Africa

**German (Gr. 8 – 10) and Mathematical Literacy (Gr. 10 – 11) 2014 - 2017**

#### OTHER WORK EXPERIENCE

Quanticate, Bloemfontein, South Africa

**Statistical Programmer 2012 - 2014**

#### PUBLICATIONS AND PAPERS

Strauss, T., & von Maltitz, M. J. (2017). Generalising Ward's Method for Use with Manhattan Distances. *PloS one*, 12(1), e0168288.

#### PAPERS REVIEWED

Algorithms for Molecular Biology

Linguistics Vanguard

Acta Germanica

#### COURSES AND TRAINING ATTENDED

DLL 5: Deutsch Lehren Lernen (Lehr- und Lernmedien), Goethe Institut, Jul – Nov 2022, online

DLL 3: Deutsch Lehren Lernen (Deutsch als Fremde Sprache), Goethe Institut, Mar – Jul 2022, online

DLL 4: Deutsch Lehren Lernen (Aufgaben, Übungen, Interaktionen), Goethe Institut, Jul – Nov 2021, online

Mit Apps und Tools unterrichten, Goethe Institut, Jun – Jul 2021, online

DLL 1: Deutsch Lehren Lernen (Lehrkompetenz und Unterrichtsgestaltung), Goethe Institut, Mar – Jul 2021  
DLL 6: Deutsch Lehren Lernen (Curriculare Vorgaben und Unterrichtsplanung), Goethe Institut, Jul – Nov 2020  
NTNU Methods Course, Trondheim, Norway, November 2019  
Methodik Didaktik im Unterricht für Erwachsene, Schwäbisch Hall, Germany, July 2018

## PRESENTATIONS

Strauss, T. (2022) *Word Frequency Distributions: A Comprehensive Bayesian Approach*.

Presented at the SASA (South African Statistical Association) Conference, George, November 2022

Strauss, T., Ortner, G. (2022) *Virtuelle Klassenfahrt*.

Presented at the GETVICO 24+ German Teachers Conference, online, October 2022

Strauss, T., Ludick, Z., Pretorius, W. (2022) *Investigating the Relationship between Linguistic Measures and Self-Similarity Matrices in Assessing the Structure of Music*

Presented at the IMA (Institute of Mathematics and its Applications) Maths in Music Conference, London, July 2022.

Strauss, T. (2022) *Eine Klassenfahrt im Lockdown: Förderung der interkulturellen Kompetenz bei DaF-Lernenden an der Uni*

Presented at the 29. Tagung des SAGV (Germanistenverband im Südlichen Afrika), Cape Town, April 2022.

Strauss, T. (2021) *Word Frequency Distributions: A Comprehensive Bayesian Approach*

Presented online at QUALICO 2021 (postponed Quantitative Linguistics Conference 2020), Tokyo, September 2021.

Strauss, T. (2019) *Word Frequency Distributions of African Languages*

Presented at the Digital Humanities Association of Southern Africa 2<sup>nd</sup> International Conference, Pretoria, March 2019

Strauss, T. (2019) *Babliish Confusion: Finding Structure in the Diversity of Languages:*

National 3-Minute-Thesis Competition, October, 2018

3-Minute-Thesis Competition: UFS, Bloemfontein, August 2018. (1<sup>st</sup> runner-up)

Flash-Fact Competition: Department of Mathematical Statistics and Actuarial Sciences, Bloemfontein, March 2018. (Winner: PhD Students)

Strauss, T., & Blasi, D. E. (2018). *A non-parametric approach to Word frequency distributions*.

Presented at the TBI Winterseminar in Bled, Slovenia, February 2018

Strauss, T., & Blasi, D. E. (2016). *Word Frequency Distributions*.

Presented at the Quantitative Methods in Linguistics Masterclass in Jena, Germany, September 2016

Strauss, T., & von Maltitz, M. J. (2016). *Statistical Clustering of Languages*.

Presented at the TBI Winterseminar Bled, Slovenia, February 2016

## CONFERENCES ATTENDED

Digital Humanities Conference, Utrecht, Netherlands, July 2019

South African Statistical Association Conference, Bloemfontein, November 2017

South African Statistical Association Conference, Cape Town, November 2016

Digital Humanities, Kraków, Poland, July 2016

Digital Humanities im deutschsprachigen Raum, Leipzig, March 2016