

CURRICULUM VITAE

PERSONAL DATA

NAME: Dereje Kifle Boku
ADDRESS: Dilla university, 419, Dilla, Ethiopia
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EDUCATION

AUGUST 5, 2016 PhD in MATHEMATICS, **TU Kaiserslautern**, Germany
Thesis: "Gröbner bases over extension fields of the field of rational numbers"
Research area : **Computer Algebra and Algebraic Geometry**
JANUARY 2011 Master of Science in MATHEMATICS, **Addis Ababa University**, Ethiopia
Project: "Feed Forward Neural Networks"
GPA: 3.78/4
JULY 2008 Undergraduate Degree in MATHEMATICS, **Haramaya University**, Ethiopia
Major Mathematics and Minor Physics
GPA: 3.81/4 and MAJOR GPA : 3.95/4

TEACHING EXPERIENCE (MATHEMATICS)

SEPT 2016 - PRESENT	Assistant Professor of Mathematics at Dilla University, Dilla, SNNP, Ethiopia
JAN 2011 - AUG 2012	Lecturer at Samara University, Samara, Afar, Ethiopia
JAN - AUG 2009	Assistant Lecturer at Samara University, Samara, Afar, Ethiopia
AUG - DEC 2008	High School Teacher at Chelelekitu high school, SNNPR, Gedeo Zone, Kochore Wereda, Chelelekitu, Ethiopia

SCHOLARSHIPS

JULY - SEPT 2017 Scholarship for a research visit from the University of Kaiserslautern(Germany)
Department of Mathematics
JAN - AUG 2016 Scholarship for PhD studies from the University of Kaiserslautern(Germany)
Department of Mathematics
OCT 2012 - DEC 2015 DAAD Scholarship for PhD studies at University of Kaiserslautern, Germany

RESEARCH AND PUBLICATIONS

- **Published:**

- D. K. Boku, W. Decker, C. Fieker, and A. Steenpass. Gröbner bases over algebraic number fields. In *Proceedings of the 2015 International Workshop on Parallel Symbolic Computation, PASCO'15*, New York, NY, USA, 2015. ACM.
- D. K. Boku: An Efficient Algorithm for Computing Syzygies over algebraic number fields. In *Proceedings of the 2017 National Workshop on Mathematics for the advancement of science and technology*, Adama, Ethiopia, 2017.

- **Singular Libraries:**

- D. K. Boku, W. Decker, and C. Fieker. `nfmodstd.lib` A SINGULAR 4-0-2 library for computing Gröbner bases of ideals in polynomial rings over algebraic number fields, 2015.
- D. K. Boku, W. Decker, and C. Fieker. `ffmodstd.lib` A SINGULAR 4-0-3 library for computing Gröbner bases of ideals in polynomial rings over algebraic function fields, 2016. <https://github.com/tigistdereje/Sources/tree/ffmodstd>
- D. K. Boku, W. Decker, and C. Fieker. `nfmodsyz.lib` A SINGULAR 4-0-3 library for computing syzygy modules over algebraic number fields, 2016. <https://github.com/tigistdereje/Sources/tree/nfmodsyz>

COMPUTER SKILLS

Operating system	Linux, Windows
Programming Languages	SINGULAR, JULIA, C/C++ www.singular.uni-kl.de
Typesetting and Word processing	Latex, Word
Office Programs	Excel, PowerPoint

CONFERENCES

APRIL 2017	National Conference on Mathematics for the advancement of science and technology April 28-29, 2017, Adama, Ethiopia
AUG 2015	SIAM Conference on Applied Algebraic Geometry (AG15) Aug 3-7, 2015, Daejeon, South Korea
SEPT 2013	S2AM: Summer School in Algorithmic Mathematics, 2-6 Sept 2013, at Universität Hamburg, Germany. http://www.computeralgebra.de/s2am-2013
JUNE 2012	International Conference on Complex Analysis and Partial Differential Equations, in June 2012 held at Addis Ababa University.

LANGUAGES

ENGLISH	Proficient
GERMAN	good (level B1)
GEDEO	Mother tongue
AMHARIC	Bilingual
OROMO	good

SOME PERSONAL SKILLS/ABILITIES

- Ability to work effectively in a team
- Good communication skills and interpersonal relationship
- Ability to work under pressure
- Ability to work with no supervision
- Quick to learn new ideas and concepts