### Personal Data

### NAME: Dereje Kifle Boku

ADDRESS:	Dilla university, 419, Dilla, Ethiopia
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### **EDUCATION**

August 5, 2016	PhD in MATHEMATICS, <b>TU Kaiserslautern</b> , 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)**

	<ul> <li>Post doctoral Researcher at University of Kaiserslautern, Germany</li> <li>Assistant Professor of Mathematics at Dilla University, Dilla, SNNP</li> </ul>	
Ian 2011 - Aug 2012	Ethiopia Lecturer at Samara University, Samara, Afar, Ethiopia	
	Assistant Lecturer at Samara University, Samara, Afar, Ethiopia	
AUG - DEC 2008	0 7 7	
	Zone, Kochore Wereda, Chelelekitu, Ethiopia	

### **SCHOLARSHIPS**

July 1, 2019 - June 30, 2020	Scholarship for a research assistant from the University of Kaiserslautern(Germany) Department of Mathematics together with SFB-TRR 195 https://www.computeralgebra.de/sfb/
July - Sept 2018	Scholarship for a research visit from the University of Kaiserslautern(Germany) Department of Mathematics together with SFB-TRR 195
	https://www.computeralgebra.de/sfb/
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/dkboku/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/dkboku/Sources/tree/nfmodsyz

#### • Julia Libraries:

– A Julia library on modular univariate rational interpolation and Berlekamp-Massey Algorithm Sept 2018.

#### **COMPUTER SKILLS**

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

### CONFERENCES

Ост 6-13 2017	Contributed talk: AIMS-Volkswagen Stiftung Workshop on Introduc- tion to Computer Algebra and Applications Douala, Cameroon
April 2017	Presented a paper: National Conference on Mathematics for the ad- vancement 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.

### ADMINISTRATIVE OFFICE TASK

Sept 2018-June 2019	Director of College of engineering and Technology, Dilla University
Nov 2017- August 2018	Academic Vice Director under college of engineering and Technology,
	Dilla University
March - Oct 2017	Coordinator for short term training's under the Community service and Engagement directorate office, Dilla 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

### **INTERESTS AND HOBBIES**

- Technology, Programming, Soccer, Table Tennis
- Listening to soft songs, cooking, and Travelling