

Kemal Samuel Rose

Curriculum Vitae

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Personal Data

Date of Birth 8.11.1994
Place of Birth Einbeck
Nationality German

Education

10/2018–today **Master studies**, *TU Berlin*.
10/2015–09/2018 **Bachelor studies**, *TU Berlin*,
certificate: bachelor of science.
10/2014–09/2015 **Orientierungsstudium MINTgrün**, *TU Berlin*.
08/2009–06/2014 **Integrierte Gesamtschule Göttingen**,
certificate: abitur.

Bachelor thesis

title "Semi-invariants of quiver representations in characteristic 0"
Supervisors Professor Peter Bürgisser and Professor Mario Kummer
grade 1.1

Master thesis

title "The non-Gorenstein locus of toric varieties"
Supervisors Professor Peter Bürgisser and Professor Christian Haase
grade Not graded yet

Work experience

09/2018–today **Student-assistant at TU Berlin**,
Developer for the software package [HomotopyContinuation.jl](#).
09/2017–09/2018 **Tutor at TU Berlin**,
Teaching Algebra and Analysis.

Preprints

- Certifying zeros of polynomial systems using interval arithmetic (2020 with Paul Breiding and Sascha Timme), arxiv:2011.05000

Selected seminar talks

- Seminar: Simplicial methods in algebraic topology.
Talk: Postnikov systems and minimal sets.
- Seminar: Polyhedral methods in algebraic geometry.

Talk: Grassmannians and the space of trees.

- lecture: Arakelov theory.

Talk: Deformation to the normal cone.

- Seminar: Forschungsmodul Algebra (deformation theory).

Talk: Flatness via lifting syzygies and deforming complete intersections.

- Seminar: Forschungsmodul Algebra (tropical geometry and log-geometry).

Talk: Differentials with logarithmic poles.

- Seminar: Forschungsmodul Algebra (T-varieties).

Talk: T-varieties.