

# Curriculum vitae of Daniel Skodlerack

IMS, ShanghaiTech University  
dskodlerack@shanghaitech.edu.cn

## Personal data

Address Institute of Mathematical Sciences,  
ShanghaiTech University,  
393 Middle Huaxia Road, Pudong,  
Shanghai 201210 China

Birth 26.03.1978 in Berlin

Nationality German

Family status married, 1 child, 10 years old



## Education

05/1997 University-entrance diploma “Abitur” received at secondary school “Stauffenberg Gymnasium” in Berlin

10/1997–12/2005 Diploma studies at Humboldt University Berlin in Mathematics (minor: Informatics) certificate: German diploma (1.2)

10/2001–06/2002 One academic year at Imperial College London, certificate: ICID international diploma

01/2006–09/2010 Ph.D. (defence 29.06.2010) supervisor Prof. E.-W. Zink, Humboldt University Berlin, Thesis: Embedding types and canonical affine maps between Bruhat-Tits buildings of classical groups

## Memberships

01/2006–12/2008 Research training group ”Arithmetic and Geometry” including two research stays in Zürich, one at ETH and Zürich University

01/2007–12/2008 Berlin Mathematical School in phase II

## Work

09/1997–09/2005 Student assistant at Humboldt University for several years. The areas were algebra, number theory, statistics and probability theory. All with a high marking and teaching load, except for the statistics position which was a software project.

01/2009–03/2009 Casual position at the University of East Anglia

04/2009–09/2010 Scientific assistant at Humboldt University in the representation theory group of Prof. E.W. Zink

10/2010–03/2014 Research associate at University of Muenster in the geometric group theory group of Prof. L. Kramer.

04/2014–03/2015 Senior research associate at UEA Norwich in the representation theory group of Prof. Shaun Stevens.

- 04/2015–10/2018 Visiting researcher, voluntary appointment at UEA Norwich in the representation theory group of Prof. Shaun Stevens.
- 11/2015–10/2016 Research associate at Imperial College London, line manager Dr. David Helm.
- 04/2017–09/2017 Junior professorship at Humboldt University Berlin.
- 07/2018–08/2018 Temporary position as Research Associate at University of East Anglia
- 10/2018–now Postdoc position at Institute of Mathematical Sciences, ShanghaiTech University, China

### Work, non-academic

- 10/2007–04/2008 Internship at the Federal State bank of Berlin for the maintenance and improvement of valuation algorithms in the financial library.

### Teaching, incomplete

- Spring 1999 Linear algebra II, Compulsory exercise sessions, HU Berlin
- Autumn 2009 Linear algebra I, Exercise sessions, Lecturer Prof. Große-Klönne, HU Berlin
- Spring 2010 Linear algebra II, Exercise sessions, Lecturer Prof. Große-Klönne, HU Berlin
- Spring 2011 Lecture Group theory, Assistant, Lecturer Prof. Kramer, Muenster
- Autumn 2011 Quasi-conformal geometry, Seminar, joint with Prof. Lohkamp, Muenster
- Autumn 2012 Lecture Spaces of non-positive curvature, Assistant, Prof. Kramer, Muenster
- Spring 2013 Integers of quadratic number fields, Seminar, joint with PD Dr. K. Halupczok
- Autumn 2013 Trees, Seminar, joint with Prof. Lohkamp, Muenster
- Autumn 2013 Differential geometry I, Exercise sessions, Lecturer Prof. Lohkamp, Muenster
- Spring 2017 Number Theory and their didactics, Lecture and Exercise sessions, HU Berlin
- Spring 2017 p-adic representation theory, Lecture and Exercise sessions, HU Berlin
- Spring 2019 Teaching Assistant, Mathematical Analysis II, ShanghaiTech University
- Autumn 2019 Recitation classes for Mathematical Analysis I, ShanghaiTech University

### Research Visits

- 03/2009, 10/2012 Research stays at Poitiers University, supervised by Dr. P. Broussous
- 01/09–03/09 Research stay in Norwich at the University of East Anglia, supervised by Prof. S. Stevens

### Talks

- 10/2006 “Über eine geometrische Möglichkeit Einbettungsinvarianten zu bestimmen”, HU Berlin
- 05/2007 “Gebäude für klassische Gruppen”, HU Berlin
- 06/2008 “Embeddings of local fields in simple algebras and simplicial structures on the Bruhat-Tits building”, summer school “Arithmetic Geometry and Tropical Geometry”, Alpbach, Austria
- 03/2009 “Affine Maps between buildings and classical groups”, UEA Norwich and Poitiers University

- 09/2009 “Canonical maps between Bruhat-Tits buildings of classical groups”, Workshop in remembrance of Martin Grabitz, HU Berlin
- 07/2010 “A canonical embedding of a centralizer in a classical group in terms of affine buildings” University of Muenster
- 11/2010 “Embedding types and barycentric coordinates”, University of Muenster
- 07/2012 “On intertwining implies conjugacy for classical groups”, HU-Berlin,
- 10/2012 “Geometric interpretation of intertwining and conjugacy of simple types”, Buildings 2012, Muenster
- 10/2012 “On intertwining implies conjugacy for classical groups”, Poitiers University,
- 04/2013 “Klassische Broussous-Grabitz-Typen und Gebäude von Zentralisatoren”, HU-Berlin
- 06/2013 “On Intertwining implies Conjugacy for  $p$ -adic classical groups”, University of Muenster
- 02/2014 “Actions of Burnside-groups on affine buildings”, University of Muenster
- 07/2014 “The trace map between Witt groups”, University of Muenster
- 10/2014 “Stabilizers in the building of a classical group”, Buildings 2014, University of Muenster
- 07/2015 “Skolem-Noether and representation theory of classical  $p$ -adic groups”, Heilbronn Number Theory, University of Bristol
- 12/2015 “Cuspidal representations for inner forms of classical groups”, Imperial College London
- 04/2016 “Endo-classes for inner forms of  $p$ -adic classical groups”, University of Bristol
- 06/2016 “Endo-classes for classical groups”, University of Poitiers
- 08/2016 “Modelling in international health care”, Hubei University of Medicine, Shiyan, China.
- 12/2016 “Endo-classes for classical groups”, University of Szczecin, Poland.
- 04-05/2017 “Endo-classes for classical groups”, Humboldt University Berlin
- 11/2017 “Cuspidal representations of  $p$ -adic classical groups and semisimple characters”, University of East Anglia, United Kingdom
- 11/2018 “Cuspidal representations of  $p$ -adic classical groups”, ShanghaiTech University, China
- 12/2018 “Cuspidal representations of  $p$ -adic classical groups”, Jiaotong University, China
- 04/2019 “Semisimple Characters”, ShanghaiTech University, China
- 11/2019 “Cuspidal representations of quaternionic forms of  $p$ -adic classical groups”, ShanghaiTech University, China

## Conferences

- 09/2006 Summer school for the research training group, Pleinfeld, Bavaria, topics: “hyperbolic spaces,  $Q$ -curvature, symplectic geometry”
- 03/2007 Annual conference of DMV and GMD, HU Berlin
- 04/2007 Number Theory Days, EPFL Lausanne, Switzerland

09/2007	Sato-Tate Conjecture, Diophantine Geometry, Tropical Geometry, Alpbach, Austria
01/2008	Buildings: Interactions with Algebra and Geometry, Oberwolfach
04/2008	Number Theory Days, ETH Zürich, Switzerland
06/2008	Arithmetic Geometry and Tropical Geometry, Alpbach, Austria
07/2008	Workshop on “Symplectic Field Theory”, part III, HU Berlin
08/2008	Affine Buildings, Muenster
05/2009	Leopoldina-Symposium in Algebraic and Arithmetic Algebraic Geometry, Monte Verita, Ascona, Switzerland
09/2009	Workshop in remembrance of Martin Grabitz, HU Berlin
07/2010	Workshop for 65th birthday of Prof. E.-W. Zink, HU Berlin
03/2011	Winter-spring school “Invariants and Moduli”, Augsburg
05/2012	Johann Von Neumann conference, Muenster
06/2012	Summer school “Topology and Groups 2012”, FU Berlin
10/2012	Colloquium on Helmut Koch’s 80th birthday, HU Berlin
06/2013	Mini-Workshop on locally analytic representations and some applications, Amsterdam
07/2014	Cube complexes and groups, Copenhagen
10/2014	Buildings conference 2014, Muenster
01/2015	Winter Meeting on Bruhat-Tits buildings, Imperial College London
03/2015	Meeting on Expander Graphs, KIT Karlsruhe
01/2016	Workshop on Categorification and p-adic groups, UEA Norwich
03-04/2016	Algebraisation and Geometrisation in the Langlands Programme, Heilbronn Institute for Mathematical Research, University of Bristol
04/2018	New Developments in Automorphic Forms, Seville
11/2019	ShanghaiTech Yonsei Mathematics Conference, Shanghai

### Further particulars

I am personally supervising a maths major student at ShanghaiTech University, am heavily engaged in the Maths club at this University, and I promoted for ShanghaiTech University at Zhejiang province.

### More Skills

German (native speaker), English (fluently), French (basics), Chinese (beginner level, I really like to learn Chinese)

Linux, LaTeX, C++, etc.

### Further interests

dancing, chess, raising up my son, playing piano, economy, stocks, backstroke

Shanghai, 25. September 2020