

## Employment

2016- **Hans Rademacher Instructor (Postdoc)**, *University of Pennsylvania, USA.*

## Education

2010-2016 **PhD in Mathematics**, *University of Washington, Seattle, USA.*

2006-2010 **B.Tech in Engineering Physics**, *Indian Institute of Technology Bombay, India.*

## PhD thesis

Title *On Selmer groups and factoring  $p$ -adic  $L$ -functions*  
Advisor *Ralph Greenberg*

## Papers and Preprints

**On Selmer groups and factoring  $p$ -adic  $L$ -functions,**

<https://arxiv.org/abs/1605.01026>,

accepted for publication in IMRN.

**Height one specializations of Selmer groups,**

<http://arxiv.org/abs/1510.08386>

submitted on 22 August, 2016.

**On free resolutions of Iwasawa modules, with Alexandra Nichifor,**  
in preparation.

**On second Chern classes and tensor product of Hida families,**  
in preparation.

## Talks

- Mar 2017 **Number theory seminar,** *Université Laval, Canada.*  
Jan 2017 **Number theory seminar,** *Bryn Mawr, USA.*  
Jun 2016 **Workshop on “New Directions in Iwasawa theory”,** *Banff Research Center, Canada,*  
Video link: <https://goo.gl/EksZ2s>.  
Apr 2016 **Number theory seminar,** *University of Pennsylvania, USA.*  
Jan 2016 **Number theory seminar,** *University of California Los Angeles, USA.*  
Nov 2015 **Number theory seminar,** *University of Arizona, USA.*  
Oct 2014 **Number theory seminar,** *University of Washington USA.*  
Sept 2014 **Number theory seminar,** *IIT Bombay, India.*

## Contributed Talks: 20 minutes

- Oct 2016 **Maine/Québec Number theory conference,** *Université Laval, Canada.*  
Mar 2016 **30th Automorphic forms workshop,** *Wake Forest University, USA.*  
Oct 2015 **Midwest Number theory conference,** *University of Illinois Chicago, USA.*  
Sept 2015 **Boston-Keio workshop,** *Boston University USA.*

---

## Selected Workshops

- Jan 2017 **Number Theory Monthly program**, *Centre de Recerca Matemàtica, Barcelona, Spain*,  
Integral overconvergent modular forms Workshop by Adrian Iovita.
- July 2015 **Algebraic Geometry Bootcamp**, *University of Utah Salt Lake City, USA*,  
Shimura Varieties Project group of Ana Caraiani.
- March 2013 **Arizona Winter School**, *University of Arizona Tucson, USA*,  
Modular forms and Modular curves Project group of Jared Weinstein.

---

## Upcoming travel

- May 2017 Workshop on Arithmetic Cherns-Simons theory *University of Leiden, Netherlands*
- July 2017 Iwasawa 2017 *University of Tokyo, Japan*

---

## Other Conferences and Workshops attended

- Mar 2017 Perfectoid Spaces *University of Arizona, USA*
- May 2015  $p$ -adic methods in Number theory *University of California, Berkeley, USA*
- Mar 2015 Arithmetic and Higher-Dimensional Varieties *University of Arizona, USA*
- June 2014  $p$ -adic variation in Number Theory *Boston University, USA*
- May 2014 Atkin Memorial workshop *University of Illinois Chicago, USA*
- Feb 2014 Perfectoid spaces and their applications *MSRI Berkeley, USA*
- July 2012 Pan-Asian NTC, Workshop on Bloch-Kato conjectures *IISER Pune, India*
- June 2012  $p$ -adic modular forms and arithmetic *University of California Los Angeles, USA*

---

## Fellowships

- Spring 2013 Robert and Elaine Phelps fellowship

---

## Teaching at University of Pennsylvania

- Introduction to linear algebra and ordinary differential equations**, *Spring 2017.*
- Calculus I**, *Fall 2016.*
- Ordinary differential equations**, *Fall 2016.*

---

## Teaching at University of Washington

- Introduction to ordinary differential equations**, *Spring 2016.*
- Matrix Algebra**, *Summer 2015, Winter 2015, Spring 2014, Winter 2014.*
- Introduction to mathematical reasoning**, *Summer 2013.*

---

## Other synergistic activities

- 2016-2017 **Committee Assignments**, *University of Pennsylvania, USA*,  
AP/Make-Up Exam, Undergraduate Committee.
- 2013, 2014 **Graduate TA mentor**, *University of Washington, USA*,  
Facilitated the TA training program and mentored 5 incoming graduate students both in  
Fall 2013 and Fall 2014.