

# Curriculum Vitae

Haim Grebnev

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## Education:

- PhD student,
  - University of Washington, Department of Mathematics (2018 – present)
  - Expect to finish June 2024, advised by Gunther Uhlmann
- Bachelor of Science (Mathematics - Comprehensive), with Honors in Mathematics
  - University of Washington (2015 – 2018). Thesis under John M. Lee: *The Calculus of Variations and Variational Differential Geometry*

## Papers:

- Haim Grebnev. The non-abelian X-ray transform on asymptotically hyperbolic spaces. Preprint, 2023. View at: <https://arxiv.org/abs/2312.09408>

## Awards:

- Honors Calculus Award (2<sup>nd</sup> year), University of Washington, 2017
- Honors Calculus Award (1<sup>st</sup> year), University of Washington, 2016

## Research Travels:

- Research exchange visit to Stanford University (November 2023)
- BIRS Workshop *Inverse Problems and Nonlinearity* (July 2023)
- Math + X Symposium on Matter (November 2022), Costa Rica
  - Gave a spotlight presentation (~15 min) on the non-abelian X-ray transform.
- “Inverse Problems in Analysis and Geometry” conference (August 2022), University of Helsinki
- Participant in MSRI summer program “Integral Equations and Applications” (June 2022), MSRI Berkley CA
- Research visit to University of Cambridge, invited by Gabriel Paternain (May 2022)

## Grants:

- PIMS grant to support “UW Early Career Inverse Problems and PDE/Microlocal Analysis Seminar” held at the University of Washington, 2022 – 2023 academic year (CAD \$2500)

- PIMS grant to support “Early Career Inverse Problems/DG/PDE Seminar” to be held at the University of Washington, 2023 – 2024 academic year (CAD \$3000)

### **Seminars (Co)Organized:**

- Co-organized “UW Early Career Inverse Problems and PDE/Microlocal Analysis Seminar,” held at the University of Washington, 2022 – 2023 academic year (jointly with Hadrian Quan)
  - Invited both internal and external speakers – supported by PIMS grant and the department.

### **Outreach:**

- Graduate Mentor of the WXML project “Locating the Walsh inequalities in the SNIEP,” University of Washington, Spring 2019
  - Mentored a small undergraduate team in a research project under the guidance of Pietro Papparella.
- Graduate Mentor of a WDRP project using the book *Calculus of Variations* by I.M. Gelfand and S.V. Fomin, University of Washington, Autumn 2019
  - Led a one-on-one reading course with a talented undergraduate.
- Helped set up the conference “Harmonic Analysis and Waves: A Conference Celebrating Hart Smith’s 60th Birthday” held at the University of Washington, August 2022:
   
[https://sites.math.washington.edu/~hgrebnev/HartSmithConf\\_I.html](https://sites.math.washington.edu/~hgrebnev/HartSmithConf_I.html)
- Gave a speech at “Admitted Student Preview Day” at the University of Washington to an audience of newly admitted undergraduates and their parents, April 2019.
  - I talked about my experiences as an undergraduate at the University of Washington and the variety of educational and research opportunities that the university offers.

### **Teaching:**

- TA for Math 134: Accelerated Honors Calculus (current position)
- TA/Grader for Math 534: Graduate Complex Analysis
- TA/Grader for Math 428: Undergraduate Complex Analysis
- TA for Math 208: Matrix Algebra with Applications
- TA for Math 207: Introduction to Differential Equations
- TA for Math 124/125/126: Calculus with Analytic Geometry I/II/III
- TA for Math 112: Application of Calculus to Business and Economics

**Other Skills**

- Extensive experience programming in the language C#.
- I natively command both English and Russian.
  - Learning Hebrew.
  - I'm willing to learn any other language if needed.

**Website:**

<https://sites.math.washington.edu/~hgrebnev/>

Includes notes, preprint, research interests, etc.