Justin Katz

Curriculum Vitae

Education

2011–2015	**B.A. Mathematics**, *Reed College*, Portland, Oregon. *Spent Fall 2013 semester in Budapest, through Budapest Semesters in Mathematics*
2015–present	**PhD candidate**, *Purdue University*, West Lafayette, Indiana.

Research Experience

Summer 2014	**Research in computer vision, through algebraic geometry**, *Reed College*, Portland, Oregon. Advised by: Irena Swanson, Supported by Reed College Science Fellowship Grant
Fall 2014– Spring 2015	**Undergraduate thesis on Laplacian eigenfunction decomposition of function spaces via Friedrichs self-adjoint extensions of unbounded positive symmetric operators**, *Reed College*, Portland, Oregon. Advisor: Jerry Shurman
Fall 2014	**Independent study on differential topology and Morse theory**, *Reed College*, Portland, Oregon. Working under: Kyle Ormsby
Spring 2015	**Independent study on topolfogical modular forms**, *Reed College*, Portland, Oregon. Working under: Kyle Ormsby

Awards

Summer 2014	**Reed College Science College Science Fellowship Grant**, *Reed College*, Portland, Oregon.
Summer 2018 (yearlong)	**Purdue Research Fellowship**, *Purdue University*, West Lafayette, Indiana.

Teaching Experience

Fall 2012	**Volunteer Tutor**, *Franklin High School*, Portland, Oregon.
Fall 2012-Present	**Professional tutor through WyzAnt inc.**, Portland, Oregon.
Fall 2014	**Drop in tutor at Reed math help center**, *Reed College*, Portland, Oregon.
Fall 2014	**Paper grader for multivariable calculus**, *Reed College*, Portland, Oregon.
Fall 2016	**Recitation instructor: Multivariable Calculus**, *Purdue University*, West Lafayette, Indiana.
Spring 2017	**Recitation instructor: Multivariable Calculus**, *Purdue University*, West Lafayette, Indiana.
Fall 2017	**Recitation instructor: Multivariable Calculus**, *Purdue University*, West Lafayette, Indiana.
Spring 2018	**Instructor: Introduction to Riemannian Geometry (Reading course, with 3 undergraduates)**, *Purdue University*, West Lafayette, Indiana.
Spring 2018	**Recitation instructor: Multivariable Calculus**, *Purdue University*, West Lafayette, Indiana.
Spring 2019	**Recitation instructor: Multivariable Calculus**, *Purdue University*, West Lafayette, Indiana.

Fall 2020	**Recitation instructor: Multivariable Calculus**, *Purdue University*, West Lafayette, Indiana.
Spring 2021	**Instructor: Applied Calculus**, *Purdue University*, West Lafayette, Indiana.
Fall 2021	**Recitation instructor: Multivariable Calculus**, *Purdue University*, West Lafayette, Indiana.
Fall 2021	**Instructor: Abstract Algebra (Reading course, with 5 undergraduates)**, *Purdue University*, West Lafayette, Indiana.
Fall 2021	**Instructor: Galois Theory (Reading course, with 3 undergraduates)**, *Purdue University*, West Lafayette, Indiana.

Publications

Arapura, D., Katz, J., McReynolds, D.B. et al. Integral Gassman equivalence of algebraic and hyperbolic manifolds. Math. Z. 291, 179–194 (2019). https://doi.org/10.1007/s00209-018-2077-2.