

# Arseniy Sheydvasser

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Yale University  
10 Hillhouse Avenue  
New Haven, CT 06511  
(508) 686-6051  
arseniy.sheydvasser@yale.edu

**RESEARCH INTERESTS** Analytic Number Theory; Integral Circle/Sphere Packings; Thin Groups; Orders of Quaternion Algebras

**EDUCATION** *Doctor of Mathematics*, 2012 - 2018 (expected)  
Yale University, New Haven, CT

*Bachelor of Mathematics, Bachelor of Physics, Magna Cum Laude* 2008 - 2012  
Bowdoin College, Brunswick, ME

**PAPERS**

- *Quaternion Orders and Superpackings*. arXiv:1708.03405
- *Orders Over Algebras with Involution*. **Journal of Number Theory** (to appear) arXiv: <https://arxiv.org/abs/1612.07711>
- *A Corrigendum to Unreasonable Slightness*. **The American Mathematical Monthly** **123**(5) (2016) 482-85.

**TALKS**

- **Dartmouth College**, *Quaternion Algebras and Integral Sphere Packings*. February. 2017
- **University of Colorado, Boulder**, *Quaternion Algebras and Integral Sphere Packings*. Oct. 2016

**TEACHING** Yale University

- Fall 2016: Calculus of Functions of One Variable I
- Fall 2015: Multivariable Calculus
- Spring 2014: Calculus of Functions of One Variable II (flipped classroom)

**STUDENT ADVISING EXPERIENCE** *Graduate Mentor at SUMRY* June-August 2017  
Worked with J. Hinman, B. Kuca, and A. Schlesinger on “The Unreasonable Rigidity of Ulam Sets.”

*Graduate Mentor at SUMRY* June-August 2016  
Worked with A. Schlesinger, R. Mintzer-Sweeney, and K. Xiu on “Embeddings of Imaginary Quadratic Fields into Rational Quaternion Algebras.”

*Graduate Mentor at DIMACS REU* June-July 2015  
Worked with L. Kenigsberg on “Cymatics-Chlandi Plates.” (Kenigsberg won a Goldwater scholarship for this work)

**BROADER IMPACTS** Regular contributor at Quora (<https://www.quora.com/profile/Senia-Sheydvasser>), writing primarily about mathematics.