Arseniy (Senia) Sheydvasser

Graduate Center at CUNY 365 5th Ave, New York, NY 10016 ssheydvasser@gc.cuny.edu

RESEARCH INTERESTS	Analytic Number Theory; Integral Circle/Sphere Packings; Thin Groups; Orders of Quaternion Algebras; Additive Number Theory
APPOINTMENTS	2018 - 2020 Research Associate Graduate Center at CUNY, New York
EDUCATION	Doctor of Mathematics, 2012 - 2018 Yale University, New Haven, CT
	Bachelor of Mathematics, Bachelor of Physics, Magna Cum Laude 2008 - 2012 Bowdoin College, Brunswick, ME
PAPERS	• Quaternion Orders and Sphere Packings, Journal of Number Theory, accepted
	• <i>Rigidity of Ulam Sets and Sequences</i> (with J. Hinman, B. Kuca, and A. Schlesinger), Involve 12(3) (2019) 521-539
	• The Unreasonable Rigidity of Ulam Sequences (with J. Hinman, B. Kuca, and A. Schlesinger), Journal of Number Theory 194 (2019) 409-425
	• Orders Over Algebras with Involution, Journal of Number Theory 183 (2017) 249-268
	• A Corrigendum to Unreasonable Slightness. The American Mathemati- cal Monthly 123(5) (2016) 482-85
TALKS	• Graduate Center, Hyperbolic Isometry Groups and Quaternion Algebras. Apr. 2019
	• Graduate Center, Applications of Orders with Involution. Mar. 2019
	• Bronx Community College, Two Trivial Problems and an Impossible One. Dec. 2018
	• Integers 2018, Rigidity in the Ulam sequence. Oct. 2018
	• New York Logic Model Theory Seminar (at CUNY), Rigidity in the Ulam sequence. Sep. 2018
	• CANT 2018 (at CUNY), Rigidity in the Ulam sequence. May. 2018
	• Rutgers University, Connections between Integral Sphere Packings and Quaternion Algebras. May. 2018
	• Dartmouth College, Quaternion Algebras and Integral Sphere Packings. Feb. 2017
	• University of Colorado, Boulder, Quaternion Algebras and Integral Sphere Packings. Oct. 2016

TEACHING

• Spring 2019: Calculus with Analytic Geometry I

Yale University

CUNY

- Spring 2018: Calculus of Functions of One Variable II (flipped classroom)
- Fall 2017: Cryptography and Computer Security
- Fall 2016: Calculus of Functions of One Variable I
- Fall 2015: Multivariable Calculus
- Spring 2014: Calculus of Functions of One Variable II (flipped classroom)

STUDENTGraduate Mentor at SUMRYJune-August 2017ADVISINGWorked with J. Hinman, B. Kuca, and A. Schlesinger on "The UnreasonableEXPERIENCERigidity of Ulam Sets."

Graduate Mentor at SUMRY June-August 2016 Worked with R. Mintzer-Sweeney, A. Schlesinger, 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)

PROGRAMMINGPython, Sage, Java, MathematicaLANGUAGESTop Writer at Quora (https://www.quora.com/profile/Senia-Sheydvasser), writingBROADERTop Writer at Quora (https://www.quora.com/profile/Senia-Sheydvasser), writingIMPACTSTop writer at Quora (https://www.quora.com/profile/Senia-Sheydvasser), writing