Nicholas A Matteo

Curriculum Vitae

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Education

Ph.D. in Mathematics. Northeastern University, May 2015.
Advisor: Egon Schulte. Thesis: "Convex polytopes and tilings with few flag orbits."

M.A. in Mathematics. Miami University, August 2010.

B.A. in Mathematics, with minor in Computer Science. Miami University, August 2008.

Publications

N. Matteo. "Combinatorially two-orbit convex polytopes." Accepted, *Discrete & Computational Geometry*. DOI:10.1007/s00454-015-9752-4

N. Matteo. "Two-orbit convex polytopes and tilings." *Discrete & Computational Geometry* 55 (2), March 2016, pp. 296–313.

P. Larson, N. Matteo, S. Shelah. "Majority decisions when abstention is possible." *Discrete Mathematics* 312, April 2012, pp. 1336–1352.

N. Matteo, Y. Morton. "Ionosphere Geomagnetic Field: Comparison of IGRF Model Prediction and Satellite Measurements 1991–2010." *Radio Science* 46 (4), August 2011, RS4003.

N. Matteo, Y. Morton. "Higher-order ionospheric error at Arecibo, Millstone, and Jicamarca." *Radio Science* 45 (6), December 2010, RS6006.

N. Matteo, Y. Morton, P. Chandrasekaran, F. van Graas. "Higher Order Ionosphere Errors at Arecibo, Millstone, and Jicamarca." Proceedings of the 22nd International Technical Meeting of the Satellite Division of the Institute of Navigation (ION GNSS 2009), pp. 2739–2750.

Talks

"Orthoschemes," Discrete Mathematics Seminar. York University, January 21, 2016.

"k-Orbit convex polytopes," AMS Fall Eastern Sectional Meeting, Special Session on Geometry and Combinatorics of Polytopes. Rutgers University, November 14–15, 2015.

"Convex polytopes, tilings, and flag orbits," Geometry/Algebra seminar.
University of New Brunswick, August 25, 2015.

"Four-orbit convex polytopes," Combinatorial and Convex Geometry Fest.
Banff International Research Station, February 14–15, 2015.

"Three-orbit convex polytopes," Discrete Geometry and Symmetry Workshop.
Banff International Research Station, February 9–13, 2015.

"Flag orbits of convex polytopes and tilings," Geometry, Algebra, Singularities, Combinatorics (GASC) seminar. Northeastern University, December 1, 2014.

"Two-orbit convex polytopes and tilings," Retrospective Workshop on Discrete Geometry, Optimization, and Symmetry. Fields Institute, Toronto, November 25–29, 2013.

"Higher Order Ionosphere Errors at Arecibo, Millstone, and Jicamarca," Institute of Navigation GNSS, Session E4, Paper #3. Savannah, GA, September 22–25, 2009.

"Ionosphere Geomagnetic Field", COUNT Workshop. Dayton, OH, April 9–10, 2009.

Teaching & Research Experience

Postdoctoral Fellow at York University. Taught
MATH 1505: Mathematics for the Life and Social Sciences 2015–2016.

Teaching Assistant at Northeastern. 8 semesters as instructor of record:
MATH 1215: Mathematical Thinking Spring 2013, Fall 2013, Fall 2014.
MATH 1231: Calculus for Business Fall 2011, Fall 2012.
MATH 1251: Calculus for Biology Fall 2010, Spring 2011, Spring 2014.

Research Assistant to Dr. Yu Morton, Department of Electrical and Computer Engineering, Miami University. Funded by AFOSR grant #FA9550-07-0354. 2008–2010.

Grants & Fellowships

Northeastern University Dissertation Completion Fellowship, covering stipend, tuition, and benefits. Spring 2015.

Northeastern University Excellence Fellowship, an annual $5,000 fellowship. 2010–2014.

National Science Foundation grant supplied travel and lodging for the Jicamarca Radio Observatory International Research Experience Program in Peru. Summer 2009.

Honors & Awards

Miami University Department of Mathematics Faculty Prize, April 2010, "In Recognition of Outstanding Scholarship."

2009 Institute of Navigation Graduate Scholarship in the amount of $2,000.

National Merit Scholar.

Erdős number 2.

Organizations & Service

Member of American Mathematical Society,
Pi Mu Epsilon (Ohio Delta Chapter),
Phi Kappa Phi (Miami University Chapter),
Free Software Foundation.

Languages

English, Italian, French, basic Spanish.

Experienced in C++, Python, MATLAB; LaTeX; GNU/Linux.