

Jamie Juul | Curriculum Vitae

Amherst College, Department of Mathematics and Statistics, Amherst, MA 01002
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Employment

University of British Columbia | Postdoctoral Fellow beginning Fall 2018
Amherst College | Visiting Assistant Professor 2015–2018

Education

University of Rochester | Ph.D. Mathematics 2015
Thesis: Galois Groups of Iterated Rational Functions and their Applications
Advisor: Thomas J. Tucker
Niagara University | B.S. Mathematics 2009
Summa Cum Laude, Honors Program

Research Interests

Arithmetic Dynamics, Algebraic Number Theory

Honors and Awards

AMS-Simons Travel Grant 2018
AWM-NSF Travel Grant 2017
Outstanding Graduate Teaching Award, University of Rochester 2013
The Dr. George B. Banks Memorial Award, Niagara University 2009
Award for Excellence in Mathematics, Niagara University 2009

Papers

- J. Juul, H. Krieger, N. Looper, M. Manes, B. Thompson, and L. Walton, “Arboreal representations for rational maps with few critical points,” manuscript submitted for publication. Available at arXiv: 1804.06053 , 13 pages, 2018.
- R. Benedetto, J. Juul, “Odoni’s conjecture for number fields,” manuscript submitted for publication. Available at arXiv: 1803.01987, 15 pages, 2018.
- J. Juul, “The image size of iterated rational maps over finite fields,” manuscript submitted for publication. Available at arXiv: 1706.07458, 22 pages, 2017.
- R. Benedetto, X. Faber, B. Hutz, J. Juul, and Y. Yasufuku, “A cubic PCF arboreal representation,” Res. Number Theory 3 (2017), 3:29.
- J. Juul, “Fixed point proportions for Galois groups of non-geometric iterated extensions,” to appear in Acta Arith. Available at arXiv:1603.06103, 14 pages, 2016.
- J. Juul, “Iterates of generic polynomials and generic rational functions,” to appear in Trans. Amer. Math. Soc. Available at arXiv: 1410.3814, 25 pages, 2016.

- A. Bridy, P. Ingram, R. Jones, J. Juul, A. Levy, M. Manes, S. Rubenstein-Salezedo, and J. Silverman, “Finite ramification for preimage fields of postcritically finite morphisms,” *Math. Res. Letters*, Vol. 24, No. 6 (2017), pp. 1633-1647.
- J. Juul, P. Kurlberg, K. Madhu, and T. J. Tucker, “Wreath products and proportions of periodic points,” *Int. Math. Res. Not. IMRN*, (13):3944-3969, 2016.

Teaching Experience

Amherst College 2015–2018

- Math 111 | Introduction to the Calculus | Fall 2016
- Math 121 | Intermediate Calculus | Fall 2015
- Math 220 | Discrete Mathematics | Fall 2016, Fall 2017
- Math 250 | Number Theory | Spring 2016, Spring 2017
- Math 290 | Topics in Number Theory (Independent Study) | Fall 2017
- Math 271 | Linear Algebra | Fall 2015
- Math 272 | Linear Algebra with Applications | Spring 2016
- Math 350 | Groups, Rings, and Fields | Spring 2017, Spring 2018

University of Rochester 2009–2015

- Math 142 | Calculus II | Summer 2012, Spring 2013
- Math 143 | Calculus III | Summer 2013, Summer 2015
- Math 161 | Calculus I (accelerated) | Fall 2013
- Math 164 | Multidimensional Calculus | Summer 2010
- Math 165 | Linear Algebra with Differential Equations | Summer 2011
- Math 235 | Linear Algebra | Summer 2014

Mentoring

Honors Thesis Advisor - Lily Fang '18 (Amherst College)

Professional Service and Outreach

Faculty Co-Organizer for GirlsGetMath@Rochester Summer 2017, 2018
 Teaching Assistant for GirlsGetMath@ICERM Summer 2016
 Co-Organizer for Special Session at Joint Mathematics Meeting January 2018
 Journal Referee

Invited Talks

AMS Spring Eastern Sectional Meeting, Northeastern University <i>Special Session on Arithmetic Dynamics</i>	Spring 2018
Canadian Mathematical Society Winter Meeting, Waterloo, ON <i>Special Session in Arithmetic Dynamics</i>	Fall 2017
Undergrad Lecture, SUNY Geneseo	Fall 2017
Algebra/Number Theory Seminar, Brown University	Fall 2017
Algebra Seminar, University of Connecticut	Fall 2017
Mathematical Congress of the Americas, Montreal, Canada <i>Special Session on Arithmetic Dynamics</i>	Summer 2017
Pacific Northwest Number Theory Conference, Oregon State University	Spring 2016
Post Bac/Undergrad Lecture, Smith College	Spring 2016
AMS Western Sectional Meeting, University of Nevada, Las Vegas <i>Special Session on Arithmetic Geometry</i>	Spring 2015
Algebra Seminar, University at Buffalo	Spring 2015
Undergrad Lecture, Amherst College	Spring 2015

Contributed Talks

Connecticut Number Theory Conference, University of Connecticut	Summer 2018
Five College Number Theory Seminar, Amherst College	Fall 2017
Upstate Number Theory Conference, Binghamton University	Spring 2017
Upstate Number Theory Conference, University of Rochester	Spring 2016
Five College Number Theory Seminar, Amherst College	Spring 2016
Thesis Defense, University of Rochester	Spring 2015
Upstate Number Theory Conference, Cornell University	Spring 2015
Dynamics Seminar, University of Rochester	Fall 2014
Upstate Number Theory Conference, University at Buffalo	Spring 2014
Number Theory Seminar, University of Rochester	Spring 2013
Dynamics Seminar, University of Rochester	Fall 2012

Selected Conferences and Programs Attended

Workshop in Complex and Arithmetic Dynamics, Northwestern University	Spring 2018
Women in Numbers 4	Summer 2017
re:boot Number Theory 2017	Summer 2017
AIM Workshop on The Galois Theory of Orbits in Arithmetic Dynamics	Spring 2016
AIM Workshop on Postcritically Finite Maps in Complex and Arithmetic Dynamics	Spring 2014
MSRI Summer Graduate Workshop in Model Theory	Summer 2012
Arizona Winter School	Spring 2012, 2013, 2014
ICERM Global Arithmetic Dynamics Workshop	Spring 2012
Summer Math Institute, Cornell University	Summer 2009