James Waterman – Curriculum Vitae

Contact information	Institute for Mathematical Sciences, Stony Brook University, Stony Brook, NY 11794-3660, USA	Website: sites.google.com/view/jwaterman/ Email: james.waterman@stonybrook.edu Phone: available on request
Research	Dynamical Systems, Complex analysis, iteration of transcendental entire and meromorphic functions, and quasiregular maps.	
Employment	Milnor Lecturer Stony Brook University, Stony Brook	August 2021 – present , NY, United States
	Research Associate The University of Liverpool, Liverpoo	October 2019 – August 2021 ol, United Kingdom
Education	Ph.D. awarded April 2020 The Open University, Milton Keynes, United Kingdom, Supervisors: Prof. Phil Rippon and Prof. Gwyneth Stallard Thesis title: Iteration in tracts	
	Bachelor of Science Northern Illinois University, Dekalb, Major: General Mathematics Minor: Statistics Summa cum laude	May 2016 IL, United States,
Preprints	 D. Martí-Pete, L. Rempe, J. Waterman, Eremenko's conjecture, Wan- dering Lakes of Wada, and Maverick Points, submitted, arXiv:2108.10256 D. Martí-Pete, L. Rempe, J. Waterman, Bounded Fatou and Julia com- ponents of meromorphic functions, to appear in Math. Annalen, arXiv:2204.11781 	
PUBLICATIONS	 J. Waterman, Wiman–Valiron discs and the dimension of Julia sets, Int. Math. Res. Not. IMRN, Volume 2021, Issue 12 (2021), 9545-9566. doi:10.1093/imrn/rnaa029 	
	 J. Waterman, Identifying logarithmic tracts, Ann. Acad. Sci. Fenn., 45 (2020), 739-749. doi:10.5186/aasfm.2020.4543 	
	 J. Waterman, Slow escape in tracts, Proc. Amer. Math. Soc., 147 (2019), 3087-3101. doi:10.1090/proc/14509 	

	 A. Fletcher, D. Macclure, J. Waterman, S. Wesley, The infinitesimal space of uqr mappings, <i>Journal of Analysis</i>, Volume 24, Issue 1 (2016), 67-81. doi:10.1007/s41478-016-0003-8
Teaching and Advising	• Second Ph.D. advisor to Tania Gricel Benitez Lopez, together with Lasse Rempe, defended in August 2022.
	• Lead a twelve month undergraduate research program, Enhanced Re- search Experience for Undergraduates, at Stony Brook University in 2023.
	• Teaching in Fall 2021: MATH200-1 Logic, Language, and Proof with approximately 40 students, Stony Brook University.
	• Teaching in Spring 2022: MATH351-1 Dynamical Systems with approximately 20 students, Stony Brook University.
	• Teaching in Fall 2022: MATH342-1 Applied Complex Analysis with approximately 60 students, Stony Brook University.
	• Teaching in Spring 2023: MATH319-1 Foundations of Analysis with approximately 40 students, Stony Brook University.
	• Teaching in Fall 2023: MATH331-1 Computer-Assisted Mathematical Problem Solving with approximately 35 students, Stony Brook Univer- sity.
	• Assisted in teaching in Spring 2021: MATH345 Undergraduate complex dynamics with approximately 20 students, University of Liverpool.
Conference & Seminar Presentations	 Talks Topics in Complex Dynamics, Universitat de Barcelona, Spain, 19–23 June 2023.
	• University of North Texas Dynamics seminar, Denton Texas, USA, 9 December 2022.
	• CAVID, London, UK, (via Zoom) 20 September 2022.
	• Scheme 3 meeting on Holomorphic Dynamics, Liverpool, UK, 22 June 2022.
	• On Geometric Complexity of Julia Sets - III, Bedlewo, Poland, (via Zoom) 28 September 2021.
	• Advancing Bridges in Complex Dynamics, CIRM, Luminy, France, 20 September 2021.
	• Stony Brook Dynamical Systems Seminar, Stony Brook University, USA, 8 September 2021.
	• Topics in Complex Dynamics 2021, Universitat de Barcelona, Spain, (via Zoom) 19–23 April 2021.
	• Dynamical Systems Seminar at the Open University, UK, (via Microsoft Teams) 10 March 2021.

- Dynamical Systems Seminar at the Institute of Mathematics, Warsaw University, Poland, (via Google meet) 15 May 2020.
- Imperial College London Dynamical Systems Seminar, London, UK, 11 February 2020.
- University of Nottingham Algebra and Analysis Seminar, Nottingham, UK, 22 May 2019.
- Topics in Complex Dynamics, Universitat de Barcelona, Spain, 25 29 March 2019.
- Northern Illinois University Mathematics Colloquium, Dekalb, USA, 18 January 2019.
- One Day Function Theory Meeting, London, UK, 3 September 2018.
- New Developments in Complex Analysis and Function Theory, Heraklion, Greece, 2 – 6 July 2018.
- Topics in Complex Dynamics, Universitat de Barcelona, Spain, 2 6 October 2017.

Posters

- Analysis, Dynamics, Geometry, and Probability in honor of the 60th birthday of Professor Chris Bishop, Stony Brook, USA, March 2 – 6, 2020.
- Low-dimensional and Complex Dynamics, EPFL, Lausanne, Switzerland, 2 – 6 December 2019.
- Dynamics, Measures and Dimensions in honor of the 60th birthday of Professor Mariusz Urbański, Bedlewo, Poland, 7 – 12 April 2019.
- Resonances of Complex Dynamics in honor of the 60th birthday of Professor Walter Bergweiler, Edinburgh, UK, 9 13 July 2018.

Conferences Attended

- Quasiworld Workshop in honor of the 60th birthday of Mario Bonk, University of Helsinki, Finland, 14–18 August 2023.
 - Around the Mandelbrot set: in honor of the 60th birthday of Mitsuhiro Shishikura, Kyoto University, Japan, 29 May 2 June 2023.
 - LMS Scheme 3 meeting in Holomorphic Dynamics, Liverpool, UK, 8 July 2019.
 - Analysis Aspects of Dynamics, Imperial College, UK, 16 18 May 2018.
 - On Geometric Complexity of Julia Sets, Bedlewo, Poland, 18 23 March, 2018.
 - Complex Dynamics and Quasi-conformal Geometry, Université d'Angers, France, 23 – 25 October 2017.
 - One Day Function Theory Meeting, London, UK, 4 September 2017.
 - LMS Graduate Student and Society Meeting, London, UK, 30 June 2017.

	• LMS Scheme 3 meeting in Holomorphic Dynamics, Imperial College, UK, 22 March 2017.
	• LMS Scheme 3 meeting in Holomorphic Dynamics, The Open University, UK, 11 Oct 2016.
	• One Day Function Theory Meeting, London, UK, 12 September 2016.
SERVICE	• Organizer of the Stony Brook Dynamical systems seminar, Fall 2022 – present.
	• Organizer of the Liverpool Dynamical Systems Seminar, Spring 2020 – Summer 2021.
	• Co-organizer of the conference 'Postgraduate Conference in Complex Dynamics 2019', London, UK, 27 February – 1 March 2019. Funded by The Open University and an LMS Scheme 8 grant of £3,458.
	• Reviewer for Mathematische Zeitschrift and Revista Matematica Iberoamer- icana, and quick opinions for the Journal of the LMS.
Awards	• Early career poster prize at the conference 'Resonances of Complex Dy- namics' – in honor of the 60th birthday of Professor Walter Bergweiler, Edinburgh, UK, 9-13 July 2018.
	• Northern Illinois University, Department of Mathematical Sciences, Chair- man's award, 2016.

• Northern Illinois University, Stelford prize, 2016.