Curriculum Vitæ
Michael Paul Landry

Contact information
michael.landry@slu.edu
mathstat.slu.edu/~landry
Office phone: 314.977.2433

Education

Yale University, PhD in mathematics	2019
Yale University, MA and MPhil in mathematics	2016
UC Berkeley, BA with highest honors in mathematics	2013

Employment

Saint Louis University, Assistant Professor	2023-present
Washington University in Saint Louis, NSF Postdoctoral Fellow	2021-2023
Washington University in Saint Louis, William Chauvenet Postdoctoral Lecturer	2019-2023

Visiting positions

Leibniz Fellow, Mathematisches Forschungsinstitut Oberwolfach	Winter 2023

Awards and grants

NSF standard grant DMS 2405453	2024-2027
NSF grant for St. Louis Topology Conference DMS 2350309	2024
NSF Postdoctoral Fellowship (MSPRF)	2021
NSF Graduate Fellowship (GRFP)	2015
Dorothea Klumpke Roberts Prize, UC Berkeley	2013

Research articles

12. *Simultaneous universal circles* with Y. Minsky and S. Taylor
    Submitted 2024. 25 pages. arXiv:2412.06986.
11. *Transverse surfaces and pseudo-Anosov flows* with Y. Minsky and S. Taylor
    Submitted 2024. 48 pages. arXiv:2406.17717.
10. *Endperiodic maps, splitting sequences, and branched surfaces* with C.C. Tsang
    Geometry and Topology, to appear. 144 pages. arXiv: 2304.14481
9. *Endperiodic maps via pseudo-Anosov flows* with Y. Minsky and S. Taylor
    Submitted 2023. 50 pages. arXiv:2304.10620.
8. *Flows, growth rates, and the veering polynomial* with Y. Minsky and S. Taylor
    Ergodic Theory and Dynamical Systems Vol. 43, no. 9, pp. 3026-3107. 2023.
7. *A polynomial invariant for veering triangulations* with Y. Minsky and S. Taylor
    Journal of the European Mathematical Society Vol. 6, no. 2, pp. 731–788. 2024.
6. *Veering triangulations and the Thurston norm: homology to isotopy*
    Advances in Mathematics, Vol 396, paper 108102, 2022. 53 pp.
5. *Stable loops and almost transverse surfaces*
    Groups, Geometry, and Dynamics Vol. 17, no. 1, pp. 35-75. 2023.
4. *Taut branched surfaces from veering triangulations*
    Algebraic and Geometric Topology Vol. 18 1089-1114, 2018.
3. *On symplectic capacities of toric domains* with M. McMillan and E. Tsukerman
    Involve Vol. 8, pp. 665-676, 2015.
2. *Knot projections with a single multi-crossing*
    with Adams, Crawford, DeMeo, Lin, Montee, Park, Venkatesh, and Yhee
    Journal of Knot Theory and its Ramifications Vol. 24 (3), 2015.

1. *Perfect state transfer on quotient graphs*
with Fredette, Fuller, Opperman, Tamon, and Tollefson
Quantum Information and Computation Vol. 12 (3&4): 293-313, 2012.

Other writing

2. *Thoughts on and images from my notebook.* An article aiming to give undergraduates a flavor of what math research feels like. Appeared in *ForALL.* (Fall 2024)
1. *Seifert surfaces and genera of knots.* An expository article that appeared in the SLU math department's periodical *ForALL*. (Fall 2023)

Talks

UIUC Seminar	2024
WashU Seminar	2024
UChicago Seminar	2024
Yale Seminar	2024
Oklahoma State Seminar	2024
Low Dimensional Topology, Oberwolfach workshop	2023
Australian Geometric Topology Webinar	2023
PATCH Seminar (joint Bryn Mawr/Haverford/Penn/Temple event)	2023
Heidelberg Seminar	2023
Joint Mathematics Meetings special session "Low-dimensional manifolds"	2022
Saint Louis University colloquium	2022
Rice Seminar	2022
University of Maryland College Park Seminar	2022
Big Surf(aces) Seminar	2021
AMS Fall Central Sectional, special session on low-dimensional topology	2021
Nearly Carbon Neutral Geometric Topology Conference	2021
UC Berkeley Seminar	2021
UT Austin Seminar	2021
Vanderbilt Seminar	2021
Three talk mini-course as part of VISGAT (joint KAIST/KIAS online seminar)	2020
AMS Fall Eastern Sectional, special session on geometry of groups/3-manifolds	2020
Geometry and Topology Online, Warwick/ICMS	2020
Nearly Carbon Neutral Geometric Topology Conference	2020
Rutgers New Brunswick Seminar	2020
Washington University in St. Louis Seminar	2020
Junior Geometry and Topology Workshop, UW Madison	2019
Georgia Topology Conference, University of Georgia	2019
Caltech Seminar	2019
Temple University Seminar	2019
UC Santa Cruz Seminar	2019
Washington University in St. Louis Seminar	2019
UC Berkeley Seminar	2018
Washington University in St. Louis Seminar	2018
Yale Contemporary Architecture Discourse Colloquium	2017
Boston College Seminar	2017
Georgia Tech Seminar	2017

Teaching and mentoring

Graduate Topology, SLU	Spring 2025
Multivariable Calculus, SLU	Spring 2025
Differential Equations, SLU	Fall 2024
Graduate Algebraic Topology, SLU	Spring 2024
Calculus I, SLU	Fall 2023

Graduate Topology, SLU	Fall 2023
Foundations for Higher Mathematics, WashU (2 sections)	Spring 2021
Introduction to Analysis, WashU	Fall 2020
Matrix Algebra, WashU	Spring 2020
Differential Equations, WashU	Spring 2020
Matrix Algebra, WashU	Fall 2019
Calculus II, Yale	Fall 2017
TA for The Structure of Networks, Yale	Spring 2017
Directed Reading Program Mentor, Yale	Spring 2015
TA for Calculus/Linear Algebra (first course for math majors), Yale	Fall 2014
Directed Reading Program Mentor, Yale	Fall 2014
Mentor for Summer Undergraduate Mathematics Research at Yale (SUMRY)	Summer 2014
TA for Calculus I, Yale	Fall 2013
Undergraduate Student Instructor for Multivariable Calculus, UC Berkeley	Spring 2013
Tutor, UC Berkeley Student Learning Center	2010-11

Citizenship and outreach

Organizer, SLU Geometry and Topology Seminar	2024-present
Co-organizer, St. Louis Topology Conference	2024
Designed and led a session for Sonia Kovalevsky Day at WashU	2024
Co-organizer, Special Session at AMS Fall Central Sectional	2023
Organizer of the WashU Geometry and Topology Seminar	2021-2022
Speaker in the WashU Math Circle	2022
Organizer of the WashU Topology Learning Seminar	2020-2021
Co-organizer, session at Nearly Carbon Neutral Geometric Topology Conference	Summer 2021
Organizer of the WashU Geometry and Topology Seminar	2019-20
Speaker in the WashU Math Circle	2019
Founder and organizer of the Yale Directed Reading Program	2014-15
Organizer of the Yale Graduate Student Seminar	2014-15
Referee/quick opinion for various journals	2018-present

Creative work

Poster and t-shirt design for the St. Louis Topology Conference	2024
Illustration for SLMath program *Topological and Geometric Structures in Low Dimensions*	2023