

Curriculum Vitæ  
Michael Paul Landry

**Contact information**

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**Education**

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

**Employment**

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|---|--------------|
| 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 |
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**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**

11. *Transverse surfaces and pseudo-Anosov flows* with Y. Minsky and S. Taylor  
Submitted 2024. 48pp. arXiv:2406.17717
10. *Endperiodic maps, splitting sequences, and branched surfaces* with C.C. Tsang  
**Geometry and Topology**, to appear. 144pp. arXiv: 2304.14481
9. *Endperiodic maps via pseudo-Anosov flows* with Y. Minsky and S. Taylor  
Submitted 2023. 50pp. 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, submitted to *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**

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|---|------|
| 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**

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| Algebraic Topology (graduate), SLU                     | Spring 2024 |
| Calculus I, SLU  | Fall 2023   |
| Topology (graduate), 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   |

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| 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**

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| Co-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**

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