

# Đorđe Nikolić

## Curriculum Vitae

Department of Mathematics and Statistics  
University of Massachusetts Amherst  
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🌐 [nikolic-djordje.github.io](https://github.com/nikolic-djordje)

### University Affiliation

September 2025–present **Visiting Assistant Professor**, *Department of Mathematics and Statistics*, University of Massachusetts Amherst

### Visiting Position

March - June 2025 **Graduate Fellow**, *Long Program "Non-commutative Optimal Transport"*, Institute for Pure and Applied Mathematics, Los Angeles, United States

### Education

2019–2025 **University of California, Santa Barbara**, *Santa Barbara, California, USA*, PhD Program in Mathematics

2019–2021 **University of California, Santa Barbara**, *Santa Barbara, California, USA*, Master Degree in Applied Mathematics

2016–2019 **University of Belgrade, Faculty of Mathematics**, *Belgrade, Serbia*, Master of Science in Mathematics

2012–2016 **University of Belgrade, Faculty of Mathematics**, *Belgrade, Serbia*, Bachelor of Science with Honours in Mathematics

### Publications

May 2025 **K. Craig, N. García Trillos, Đ. Nikolić**, *Vector valued optimal transport: from dynamic to static formulations*, <https://arxiv.org/abs/2505.03670>

August 2024 **E. Abdo, Đ. Nikolić**, *Long Time Dynamics Of The Three-Dimensional Nernst-Planck-Darcy Model*, <https://arxiv.org/abs/2408.07241>

May 2023 **L. Bungert, N. García Trillos, M. Jacobs, D. McKenzie, Đ. Nikolić, Q. Wang**, *It Begins with a Boundary: A geometric view on a probabilistically robust learning*, <https://arxiv.org/abs/2305.18779>

### Conference Presentations

April 2026 **"Vector Valued Optimal Transport"**, *AMS: 2026 Spring Eastern Sectional Meeting*, 2026 Boston College

April 2024 **"Multispecies Optimal Transport"**, *Southern California Applied Mathematics Symposium*, 2024 UC San Diego

August 2023 **"Multispecies Optimal Transport"**, *Minisymposium -Geometric methods in machine learning and data analysis*, Waseda University, ICIAM 2023 Tokyo

### Seminar Presentations

February 2026 **"Vector Valued Optimal Transport"**, *Analysis Seminar at Tufts University*

October 2025 **"Vector Valued Optimal Transport"**, *Applied Mathematics Seminar at University of Massachusetts Amherst*

- May 2024 "Optimal Control", *SIAM Student Chapter at UCSB*
- February 2024 "Pamphlet on Partial Differential Equations", *AWM Student Chapter at UCSB*
- July 2023 "Introduction to Optimal Transport", *Optimal Transport and Physics Reading Seminar, UCSB*
- January 2023 "Fenchel-Moreau and Fenchel-Rockafellar Theorem", *Graduate Student Convex Analysis Seminar*
- May 2022 "Linearized Optimal Transport", *SIAM Student Chapter at UCSB*

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## Conferences Attended

- April 2026 **AMS: 2026 Spring Eastern Sectional Meeting**, *Boston College, Boston, Massachusetts*
- November 2025 **SIAM Conference on Analysis of Partial Differential Equations**, *Pittsburgh, Pennsylvania*
- July 2025 **Optimal Transport Graduate Summer School**, *University of California, Santa Barbara, Santa Barbara, California*
- July 2025 **Sampling, Inference, and Data-Driven Physical Modeling in Scientific Machine Learning**, *Institute for Pure and Applied Mathematics, Los Angeles, California*
- January 2025 **Joint Mathematics Meetings**, *Seattle, Washington*
- September 2024 **Workshop "Calculus of Variations : a New Generation"**, *Hausdorff Center for Mathematics, Bonn, Germany*
- May 2024 **Interacting Particle Systems: Analysis, Control, Learning and Computation**, *ICERM, Providence, Rhode Island*
- August 2023 **10th International Congress on Applied and Industrial Mathematics, ICIAM 2023**, *Waseda University, Tokyo*
- May 2023 **Optimal Transport in Data Science**, *ICERM, Providence, Rhode Island*
- January 2023 **Joint Mathematics Meetings 2023**, *Boston*
- September 2022 **SIAM Conference on Mathematics of Data Science**, *San Diego*
- June 2022 **PIMS- IFDS- NSF Summer School on Optimal Transport**, *University of Washington, Seattle*
- June 2022 **Summer School, Integral Equations and Applications**, *Mathematical Sciences Research Institute*
- May 2022 **Data Science at the Crossroads of Analysis, Geometry, and Topology**, *AMS's Mathematics Research Communities Program*, Link: <https://www.ams.org/programs/research-communities/2022MRC-DataSci>
- May 2022 **Southern California Applied Mathematics Symposium**, *Harvey Mudd College, SIAM*

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## Teaching

- September 2025–present **University of Massachusetts Amherst, Department of Mathematics and Statistics, Instructor,**
  - Fall Semester Math 132 - Calculus 2*
  - 2025:*
  - Spring Math 331 - Ordinary Differential Equations*
  - Semester*
  - 2026:*
- June-August 2024 **University of California, Santa Barbara, Department of Mathematics, Instructor of Record,**
  - Summer Vector Calculus 2*
  - Session A:*

September 2019–present **University of California, Santa Barbara, Department of Mathematics, Teaching Assistant,**  
*Fall 2019: Math 6B - Vector Calculus 2*  
*Winter 2020: Math 6A - Vector Calculus 1*  
*Spring 2020: Math 6B - Vector Calculus 2*  
*Summer 2020 Math 6A - Vector Calculus 1*  
*Fall 2020: Math 6A - Vector Calculus 1*  
*Winter 2021: Math 117 - Introduction to Real Analysis*  
*Spring 2021: Math 6A - Vector Calculus 1*  
*Fall 2021: Math 6A - Vector Calculus 1*  
*Winter 2022: Math 2B - Calculus with Algebra and Trigonometry*  
*Fall 2022: Math 3B - Calculus with Applications, Second course*  
*Winter 2023: Math 122A - Introduction to Complex Variables*  
*Fall 2023: Math 117 - Introduction to Real Analysis*  
*Winter 2024: Math 6A - Vector Calculus 1*  
*Spring 2024: Math 117 - Introduction to Real Analysis*  
*Fall 2024: Math 6B - Vector Calculus 2*  
*Winter 2025: Math 34A - Calculus for the Social and Life Sciences*  
*Summer 2025: Math 6A - Vector Calculus 1*

October 2016– **Faculty of Mathematics, University of Belgrade, Serbia, Teaching Associate,**  
 November 2018 *Academic Analysis 2*  
*year 2016-17:*  
*Spring 2017: Calculus 1*  
*Academic Analysis 1*  
*year 2017-18*  
*Spring 2017: Analysis 2*

## Service

June 2023 - **UCSB Student Chapter of SIAM, Vice President**  
 present  
 January 2023 **Graduate Student Convex Analysis Seminar, co-organizer**  
 - June 2023

## Professional Affiliations

**American Mathematical Society**