

curriculum vitae

alexander delise

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Research Interests

Machine learning, scientific computing, artificial intelligence, data science, applications.

Education

- 2023–2027 B.S. Computational Science, Florida State University, Tallahassee, FL
Honors in the Major Thesis Topic: *Scientific Machine Learning and Data Science*
Advisor: *Dr. Nick Dexter*
- 2023–2027 B.S. Applied and Computational Mathematics, Florida State University, Tallahassee, FL

Publications

- Submitted Work

- [J2] **Alexander DeLise**, Kyle Loh, Krish Patel, Meredith Teague, Andrea Arnold, and Matthias Chung. “Optimal Linear Baseline Models for Scientific Machine Learning”. Submitted, 2025. arXiv:2508.05831.
- [J1] Anthony Wilkie, **Alexander DeLise**, Andrew Del Real, Rebekah Herrman, and James Ostrowski. “Learning Feasible Quantum States for Quadratic Constrained Binary Optimization Problems”. Submitted, 2025. arXiv:2508.02590.

- Conference Proceedings

- [P1] **Alexander DeLise**, Seyedreza Abazari, and Arda Vanli. “An Epidemiological Mixed-Integer Nonlinear Programming Framework for Vaccine Modeling and Patient Allocation During Pandemics”. In: *Proceedings of the 10th North American International Conference on Industrial Engineering and Operations Management*. Held June 17–19, 2025. IEOM Society International. Orlando, Florida, USA, June 2025. DOI: 10.46254/NA10.20250088.

Presentations

- Invited Talks

Nov 2025 *SIAM Student Chapter*, Florida State University, Tallahassee, FL: Optimal Linear Baseline Models for Scientific Machine Learning

- **Contributed Talks**

Jan 2026 *Joint Mathematics Meetings, AMS Contributed Paper Session on Computer Science, Information, and Communication*, Washington, DC: Optimal Rank-Constrained Mappings for Linear ED Architectures

- **Poster Presentations**

Jan 2026 *Joint Mathematics Meetings AMS-PME Student Poster Session*, Emory University, Atlanta, GA: Optimal Rank-Constrained Mappings for Linear ED Architectures.

Aug 2025 *CMDS REU Poster Presentation*, Emory University, Atlanta, GA: Optimal Rank-Constrained Mappings for Linear ED Architectures.

Apr 2025 *25th Annual Undergraduate Research Symposium*, Florida State University, Tallahassee, FL: Data-Driven Patient Allocation Optimization with Epidemic and Vaccine Modeling.

Feb 2025 *Florida Undergraduate Research Conference*, University of South Florida, Tampa, FL: Data-Driven Patient Allocation Optimization with Epidemic and Vaccine Modeling.

Jan 2025 *Joint Mathematics Meetings AMS-PME Student Poster Session*, Seattle, WA: Learning Feasible States with ma-QAOA and QAOA for Constrained Optimization.

Jul 2024 *UTK Summer Research Symposium*, University of Tennessee, Knoxville, TN: Learning Feasible States with ma-QAOA and QAOA for Constrained Optimization.

Apr 2024 *24th Annual Undergraduate Research Symposium*, Florida State University, Tallahassee, FL: Cost-Effective Location Allocation for COVID-19 Patient Assignment in Florida: A Data-Driven Approach.

Awards & Recognitions

2023–2027 Presidential Scholarship, Florida State University

2023–2027 Honors Program, Florida State University

2023–2027 Vires Scholarship, Florida State University

2023–2027 Academic Scholarship, Florida Bright Futures

2023 Torch Night Award, Garnet and Gold Key Leadership Honorary

2023 Seminole Scholar, Florida State University

Involvement in the Field

Aug Pi Mu Epsilon Mathematics Honor Society (PME)
2023–Present *President (2025–2026); Vice President (2024–2025); Member (2023–2024)*

Jan Society for Industrial and Applied Mathematics (SIAM)
2024–Present *Member (2024–Present)*

Mar 2025 SIAM Pi-K Race Participant

Feb 2025 FSU Math Fun Day Volunteer

Nov 2024 FSU Integration Bee Participant
Feb 2024 FSU Math Fun Day Volunteer
Nov 2023 FSU Integration Bee Volunteer