

Jose Israel Rodriguez (Research Group)

Doctoral students advised

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|---|--------------|
| 1. Cheng Chen (UW Madison Mathematics) | 2025-Current |
| Specialty: <i>Phase transitions and singular learning theory</i> | |
| 2. Bella Finkel (UW Madison Mathematics) | 2024-Current |
| Specialty: <i>Applied algebra for physics</i> | |
| 3. Caitlin Davis (UW Madison Mathematics) | 2023-Current |
| Specialty: <i>Homological properties of nonstandard graded rings</i> | |
| 4. Boyana Martinova (UW Madison Mathematics) | 2023-Current |
| Specialty: <i>Veronese subrings in the non-standard graded setting</i> | |
| 5. Aviva Englander (UW Madison Mathematics) | 2023-Current |
| Specialty: <i>Phylogenetic invariants for level-k networks</i> | |
| 6. Zinan Wang (Ph.D., UW Madison Mathematics) | 2020-2024 |
| <i>Applied algebra in kinematics of a spatial serial robot</i> | |
| 7. Julia Lindberg (Ph.D., UW Madison ECE) | 2020-2022 |
| <i>Applications of convex algebraic geometry to power systems, statistics, and optimization</i> | |

Masters students mentored

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| 8. Nikou Lei (M.A., UW Madison Mathematics) | 2024-2025 |
| <i>Noetherian operators and linear PDEs with constant coefficients</i> | |
| 9. Emma Thomas (M.A., UW Madison Mathematics) | 2022-2023 |
| <i>Invitation to Nonlinear Algebra</i> | |
| 10. Yiling You (M.A., University of Chicago Statistics) | 2016-2018 |
| <i>Polynomial eigenvalue problems</i> | |

Undergraduate research supervised

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| 11. Noah Blum, Moulik Mehta, and Yutaro Yokoyama | 2023 |
| Madison Experimental Mathematics Lab | |
| <i>Algebra in Systems Biology: The Hunt for Positive Real Solutions</i> | |
| 12. Mengwei Sun (Undergraduate, UW Madison) | 2022-2023 |
| <i>Beyond linear algebra</i> | |
| 13. Lina Liu (Undergraduate McNair Scholar , UW Madison) | 2020-2022 |
| <i>Galois groups</i> | |
| 14. Xinyang Hu (Undergraduate, UW Madison) | 2020-2021 |
| <i>Algebraic statistics: Maximum likelihood degrees of log-linear models</i> | |
| 15. Joel Steinberg (Undergraduate, UW Madison) | 2020 |
| <i>Algebraic kinematics</i> | |
| 16. Xiabin Li (Undergraduate, UW Madison) | 2019-2020 |
| <i>Numerically computing Euler characteristics</i> | |

Additional research assistants

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| 17. Haley Colgate Kottler | 2022 - 2023 |
| 18. Max Hill | 2022 - 2023 |

Postdocs mentored

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| 19. Thomas Yahl
<i>Van Vleck Visiting Assistant Professor</i> | 2023-2026 |
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