

# DANIEL CIRKOVIC

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## EDUCATION

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**Ph.D. Statistics**, Texas A&M University Expected May 2025  
Advisors: Tiandong Wang, Xianyang Zhang, Daren B.H. Cline

**M.S. Statistics**, Miami University 2017 - 2020  
Advisor: Thomas J. Fisher

**B.S. Mathematics & Statistics**, Miami University 2016 - 2020  
Minor: Actuarial Science

## RESEARCH INTERESTS

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Network analysis, extreme value theory, changepoint detection, computational statistics, applied Bayesian analysis.

## RESEARCH PAPERS

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### Publications:

Daniel Cirkovic and Tiandong Wang. Modeling random networks with heterogeneous reciprocity. *Journal of Machine Learning Research*, 25(10):1–40, 2024

Daniel Cirkovic, Tiandong Wang, and Sidney I Resnick. Preferential attachment with reciprocity: properties and estimation. *Journal of Complex Networks*, 11(5):cnad031, 09 2023

Daniel Cirkovic and Thomas J. Fisher. On testing for the equality of autocovariance in time series. *Environmetrics*, 32(7):e2680, 2021

### Preprints:

Daniel Cirkovic, Tiandong Wang, and Daren B. H. Cline. Emergence of multivariate extremes in multilayer inhomogeneous random graphs. *arXiv preprint 2403.02220*, 2024

Daniel Cirkovic, Tiandong Wang, and Xianyang Zhang. Likelihood-based inference for random networks with change-points. *arXiv preprint 2206.01076*, 2024

## TALKS

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2024 Bernoulli-IMS 11th World Congress in Probability and Statistics, Bochum, Germany. Session on Heavy Tails. Title: “Regular Variation in Multilayer Inhomogeneous Random Graphs”.

2022 Centre International De Rencontres Mathématiques (CIRM), Marseille, France. Adaptive and High-Dimensional Spatio-Temporal Methods for Forecasting. Title: “Likelihood-based changepoint detection in preferential attachment networks”.

*Invited Session:* 2022 New England Statistics Symposium, Storrs, Connecticut. Session on Advances in Network Analysis and its Applications. Title: “Likelihood-based changepoint detection in preferential attachment networks”.

2019 Joint Statistical Meetings, Denver, Colorado. Section on Statistical Computing. Title: “Comparison of Bootstrapping Techniques in Multivariate Time Series”.

## INDUSTRY EXPERIENCE

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| <b>Computational Biology, Immunoassay Development Intern</b><br>Freenome | Summer 2023<br>San Francisco, CA |
| <b>Data Scientist Intern</b><br>Shell                                    | Summer 2019<br>Houston, TX       |
| <b>Actuarial Intern</b><br>Ohio National Financial Services              | Summer 2018<br>Cincinnati, OH    |

## TEACHING EXPERIENCE

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|  |             |
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| <b>Instructor</b> , Texas A&M University<br>STAT 302 - Statistical Methods                     | Fall 2023   |
| <b>Teaching Assistant</b> , Texas A&M University<br>STAT 626 - Methods in Time Series Analysis | Summer 2022 |
| STAT 610 - Distribution Theory   | Fall 2021   |
| STAT 303 - Statistical Methods   | Summer 2021 |

## SERVICE

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| <b>Treasurer</b><br>Statistics Graduate Student Association | 2023-2024<br>Texas A&M University |
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## HONORS AND AWARDS

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| <b>Texas A&amp;M University:</b>  |      |
| Anant M. Kshirsagar Endowed Fellowship in Statistics                      | 2022 |
| SETCASA Poster Competition: 2nd place                                     | 2022 |
| Association of Former Students Merit Fellowship in Statistics             | 2020 |
| <b>Miami University Mathematics &amp; Statistics Departmental Awards:</b> |      |
| Beyerly Memorial Scholarship  | 2019 |
| Donald C. Weber Memorial Scholarship                                      | 2018 |
| Kenneth Last Memorial Scholarship   | 2018 |
| <b>Other:</b>   |      |
| Honda Ohio State University Math Medal                                    | 2016 |

## SKILLS

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| <b>Technical Skills</b> | Julia, Python, C++, R, SAS, SQL, JMP, HTML, CSS, $\text{\LaTeX}$ , Excel     |
| <b>Languages</b>        | English (native), Serbo-Croatian (limited working), German (limited working) |