

# Chase Mathis

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## EDUCATION

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- **Duke University** Durham, NC  
*B.Sc in Statistics & Computer Science, Minor in Math; GPA: 3.86* *August 2021 - May 2025*
  - **Courses**  
*Data Structures and Algorithms, Statistical Machine Learning, Modern Bayesian, Computer Vision*
- **St. Catherine's College Oxford** Oxford, UK  
*Visiting Student for the Michaelmas (Fall) Term* *Fall 2023*
  - **Courses**  
*Graphical Statistics & Statistical Genetics*
- **Deerfield Academy** Deerfield, MA  
*Cum Laude Inductee* *September 2017 - May 2021*

## RESEARCH

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- **Summer Institute in Biomedical Informatics** Harvard Medical School, DBMI  
*Research Assistant in the CELEHS Lab* *Summer 2023*
  - Performed comprehensive research on the integration of joint embedding models (CLIP) to augment established statistical models.
  - Developed a radiology report LLM that outperforms LLM's on chest x-ray classifications such as MedFlamingo.
  - Currently working on using residual embeddings for downstream, direct effect inference
- **InSpire Lab** Duke University  
*Research Assistant* *Fall 2022 - Present*
  - Lead quantitative analysis analyzing perceptions of various period tracking apps after Roe Vs. Wade.
  - Currently engaged in a survey paper to examine user attitudes towards decentralized social networks, specifically focusing on platforms like Mastodon.
- **Investigating Finite Sample Adjustment Sets** Duke & Oxford University  
*Research Lead* *Fall 2022*
  - Developing graphical conditions for biased causal inference estimators.
  - Jointly supervised by Prof. Alexander Volfovsky (Duke) and Prof. Robin Evans (Oxford)
- **Google CS Research Mentorship** Virtual  
*Mentorship* *Spring 2023*
  - Acquired key skills for a focused research path in CS, including identifying opportunities, formulating questions, conducting literature reviews, and developing methodologies.

## WORK EXPERIENCE

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- **Duke Field Hockey** Duke University  
*Data Analyst* *Fall 2022 - Present*
  - Collect, clean, and visualize unstructured game data in R/Python with NLP methods.
  - Created and continue to upkeep a website that allows the team to privately access data reports.
  - Create reports that highlight the team's strengths, which are sent to the team, coaches, and boosters.
- **Teaching Assistant** Duke University  
*Courses* *Fall 2022 - Spring 2024*
  - COMPSI 527: Computer Vision (Master's Level); STA 199: Introduction to Data Science

## PUBLICATIONS

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- [1] Jiaxun Cao, Hiba Laabadli, **Mathis, Chase**, Rebecca Stern, and Pardis Emami-Naeini. "“I Deleted It After the Overturn of Roe v. Wade”: Understanding Women's Privacy Concerns Toward Period-Tracking Apps in the Post Roe v. Wade Era". In: *Proceedings of the 2024 ACM Conference on Human Factors in Computing Systems*. To Appear. 2024.