

Brisny Rodriguez Flores

hydrangeaonthemoon@gmail.com | [linkedin.com/in/brisny-rodriguez-flores](https://www.linkedin.com/in/brisny-rodriguez-flores)

EDUCATION

The University of Notre Dame	Notre Dame, IN
B.S. of Science: Computer Science	Expected May 2026
B.S. of Arts: Chinese, History	
Research Interest:	
<ul style="list-style-type: none">• Computer Vision and Biometrics: Peri-Ocular Recognition and Handwriting Recognition with an emphasis in improving classifier accuracy• Social and Cultural Applications: Leveraging natural language processing and machine learning to analyze social phenomena, including sentiment analysis related to gender and sexuality, fan culture, and the computational analysis of historical narratives and rhetoric.	

RESEARCH EXPERIENCE

University of Notre Dame	Notre Dame, IN
<i>University Research, Computer Science and Engineering</i>	August 2024 – Present
<ul style="list-style-type: none">• Applied preprocessing methods to isolate eye regions, through the use of ‘eye hardcasscade’, ‘face hardcasscade’, and arcFace• Leveraged pre-trained classifiers and validation mechanisms to check for data accuracy	
<i>Research Assistant, ESURE Program</i>	June 2024 – July 2024
<ul style="list-style-type: none">• Constructed a data scraping algorithm that would obtain over 100 social media posts under a specific category, catered to the media that it being targeted• Gathered information needed to create meta id’s of social media posts, with the goal of detecting the usage of AI	
<i>Research Assistant, CSE Enrichment Program</i>	May 2023 – July 2023
<ul style="list-style-type: none">• Constructed infrastructure to easily visualize collected data across different figures of merit given different technology-based solutions• Created a customized variation of a dot plot to show the relationship between accuracy and different distance formulas, materials and architectures to be dynamically adaptable to the number and types of trials and methods, etc.	

CONFERENCE PARTICIPATION

Midwest Conference of Asian Affairs	September 2024
<ul style="list-style-type: none">• Utilized different imaging techniques to map travel and social network of 2 government officials; Lu Buwei and Shuli Tzu• Broke down the changes that occurred from the transition between Qin State to Qin Empire, and the impact that had on the methods people used to rise the socio-political ladder in their effort to improve their official position	
Grace Hopper Celebration	October 2022
<ul style="list-style-type: none">• Awarded a virtual scholarship (sponsored by Ford)	
Grace Hopper Celebration	October 2025

TEACHING EXPERIENCE

University of Notre Dame

Notre Dame, IN

Teaching Assistant, Baflour-Hesburgh Scholars

Seasonal, June 2022 - July 2024

Programming Teaching Assistant - Professor Kumar

2022, 2023

- Taught myself HTML and Javascript to an intermediate level, so that I could easily adapt to people's coding styles
- Explained code to students for different coding backgrounds by simplifying the language used or the topics discussed

Calculus Teaching Assistant - Professor Lim

2022, 2024

- Explained central topics found in Precalculus and Calculus 1 so that I could properly convey the information to incoming under-represented freshman
- Learned to be more specific and precise with my language when explaining new topics to people
- Facilitated group learning and attended to people one-on-one
- Managed my time so that I could attend to the greatest number of people, grade worksheets, and proctor quizzes.

RELATED PROJECTS

University of Notre Dame

Neural Networks

January 2025 – May 2025

- Experience different forms of Neural Nets (RNN, CNN, etc.) having debugged them and seen how they worked
- Create a program to identify verb-pronoun association and sentiment in verb-pronoun association was analyzed in an attempt to have a top layer overview of the development on changing perceptions towards women

History Workshop

January 2025 – May 2025

- Focus on the use of written language and the implications certain rhetoric had in the narrative of court cases and newspapers
- How language used by a retelling of a court case (not the actual document) aimed to create an antagonistic image towards the defendant and what it means about their social positions and how their cultural/ethnic background was perceived
- Went through a series of newspaper articles to locate negated information, and manipulate timelines to show the writer's efforts or their inherent bias that led to a transformation of who they were interviewing into someone different .

Digital Empires

January 2024 – May 2024

- Learn about the Warring states period, the Qin dynasty and the very beginnings of the Han dynasty; focusing on what social characteristics lead to all three such as the social network, geographic location
- Analyzed certain parts of the *Grand Historian* 史记 to track the geographic and social mobility of certain scholars
- Used online tools like Gephi to map the social network (based on strength and type) of various civil officials

Industry and Community Based Innovation Projects

August 2023 – December 2023

- Helped to develop novel applications of augmented reality (AR) technology for use in engineering design and manufacturing based on Unity and the Microsoft HoloLens platform

Chinese Pop Culture

August 2023 – December 2023

- Learned about the transformation of popular culture in China due to the inner and global politics surrounding China
- Focused on the changing views on masculinity and femininity in modern China
- How globalization has influenced the ideas society have towards men, and the states own push for a certain global view in an effort to expand their brand of soft power
- Investigated how the transformation on how masculinity is perceived in China, and how the global influence from west, has pushed for increased censorship on Danmei works in previously protected spaces

LEADERSHIP & OUTREACH

University of Notre Dame

Notre Dame, IN

President, Animation Club of Notre Dame

May 2024 – Present

- Founded the Animation Club of Notre Dame to connect those interested in the media as either a hobby, career path, or form of entertainment
- Aim to create workshops to facilitate the learning of animation and what it means to enter to the animation industry

Board Member, Historical Review

September 2024 – Present

- Helped plan the announcement date, cut off, and rubric
- Graded various papers to the standards of the Review along the categories of complexity and analytical thought
- Checked the validity of source by checking the authors, journals being published, etc.

Intern, Office of Student Enrichment

August 2024 – May 2025

- Helped with set up and take down of events curated for Notre Dame Students
- Creates social media posts to promote OSE events and the community found in the office

Student Board Member, Office of Student Enrichment

August 2022 – May 2023

- Gave feedback on events and provide services based on experience and personal background
- Contributed to the mission of the Office of Student Enrichment in relation to the campus community

PROFESSIONAL AFFILIATIONS

Women in Computer Science - Notre Dame

2023 - Present

Balfour Hesburgh Scholars

June 2021 - Present

McInerney Fellows

July 2022 - Present

TECHNICAL & LANGUAGE SKILLS

Languages: English (fluent), Spanish (fluent), Chinese (intermediate)

Coding Languages: Python, C, Java, JavaScript, HTML, Command Line,

Software: Blender, Maya, Microsoft Excel, Gephi