



# ANA F. DALIPI

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## PROFESSIONAL SUMMARY

Purdue Graduate student with a focus in Virtual Reality and Data Visualization at the Computer Graphics Technology program. Has a strong mathematical background and is experienced with data analysis.

## SKILLS

- Creative problem solver
- Strong organizational skills
- Microsoft Windows, Office and Excel proficient
- Basic Experience with Maya Animation and OpenGL
- Experience with Unity
- Knowledgeable in C#, Java, and Python
- Experience with SQL, SAS, Julia, R and MATLAB
- Basic Video Editing and Photoshop skills
- Experience with HTML and CSS

## EXPERIENCE

Data Mine Rolls-Royce Graduate Team Member August 2020 - Current

Purdue University | West Lafayette, IN

- Use data science and data visualization to predict when aircraft engines will need servicing.
- Focus on algorithm development.
- Provide leadership and guidance to other undergrad members of the project.

Virtual Reality Pedestrian-Autonomous Vehicle Interactions Benchmark March 2020 - Current

Suite Research Member

Purdue University | West Lafayette, IN

- Created a virtually based simulation for pedestrian-AV interactions using Unity and the NAVMESH System.
- In charge of the Traffic and Road System logic.
- Developed interactable UI interfaces for the car models.
- Contributed on the writing and publishing of “VR-PAVIB: The Virtual Reality Pedestrian-Autonomous Vehicle Interaction Benchmark” research paper for the ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications, 2020.

Teacher Assistant August 2019 - Current

Purdue University | West Lafayette, IN

- Help students to advance their spatial abilities in order to successfully communicate their engineering ideas using visual techniques.
- Educate students on how to become proficient with CAD software like CATIA and NX 12.0, as well as, PLM platforms like Aras.

Space Academy Research Intern June 2018 - August 2018

NASA Glenn Research Center | Cleveland, OH

- Worked on the Bio-Inspired Solar Electric Propulsion Investigation team.
- Acquired data of hydrophobic and hydrophilic plant structures using scholarly journals.
- Organized and defined variables that affect hydrophobicity using data analysis and Excel.
- Modeled data for optimal hydrophobic surfaces using R studio.

- Focused on machine learning.

Baldwin Wallace Space University Student  
Johnson Space Center | Houston, TX

March 2018 - March 2018

- Spent a week at the Johnson Space Center in Houston.
- Participated in different group projects like rocket building and launching.
- Interacted with NASA employees to learn more about the center and their mission.

Mathematics and Computer Science Tutor  
Baldwin Wallace University | Berea, OH

December 2017 - May 2018

- Offered tutoring services to students in different math and computer science subjects.
- Encouraged students to become active learners.
- Offered different learning methods that can be suitable to the student.

High School to Higher Education Course Assistant  
Baldwin Wallace University | Berea, OH

September 2016 - December 2016

- Advised and instructed students on tutoring in local high school as part of the Honors Program.
- Monitored the students' work and progress.
- Calculated the students' payments and assisted the teacher with budgeting.
- Distributed and clarified information regarding necessary application forms.

High School to Higher Education Tutor  
Baldwin Wallace University | Berea, OH

January 2016 - April 2016

- Tutored high school students in Math and English in Facing History New Tech, downtown Cleveland.
- Addressed issues concerning the students and collaborated with the teacher to improve their learning experience.
- Informed students on different post-secondary education opportunities.

## EDUCATION

MS  
Purdue University, West Lafayette, IN  
Current GPA: 4.00/4.00

May 2021

Bachelor of Mathematics  
Minor in Software Engineering  
Baldwin Wallace University, Berea, OH  
GPA: 3.86/4.00

May 2019

PSEOP  
Cuyahoga Community College, Cleveland , OH

January 2015

## WEBSITE LINK

[HTTPS://ANAFDAL.GITHUB.IO/RESUME](https://anafdal.github.io/resume)

## LANGUAGES

Fluent in Spanish, Albanian and basic Italian.