

**Julia**

**Pandas**

**Git**

**MPI**

**Machine Learning**

**Operations Research**

**Combinatorial Optimization**

**Petey Greene Tutor**

Math and Physics tutor for incarcerated people at District of Columbia Central Detention Facility

**Volenteering**

**Maryland Media Board of Directors Member**

- Review and approve budget consisting of over $100,000 for academic year of operations

- Establish a strategic outlook for future success of company, notably transitioning to online only platforms

**Vice President of Sigma Alpha Mu**

- Awarded Innovative Risk Management Award at international convention

- Oversaw 13 committees as head of internal affairs including philanthropy, community service, academics, and housing committees

**Leadership Experience**

**Data Visualization**

**Programming**

**PyTorch**

**SQL**

**R**

**Matlab**

**Python**

**TensorFlow**

**Specialties**

**Mathematical Modeling**

**Data Analysis**

**Decentralized Optimization**

**Nonlinear Optimization**

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Severna Park, MD 21146

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**Halyna Hoodavanets**

Associate Professor – University of Texas

(123) 456-789

**REFERENCES**

**George Stantchev**

Researcher – Naval Research Lab

(123) 456-789

**Outstanding Winner in the 2019 Mathematical Contest in Modeling**

* Named 1 of 17 Outstanding Winners out of over 20,000 international teams
* Used Python to model apex predator population dynamics problem
* Delivered 23 Page report in 4 day time frame

**Meritorious Winner in the 2019 SIMOIDE Modeling Challenge**

**American Mathematical Society Award for Mathematical Achievement**

**Achievements**

**Research Assistant**

**Quantum Materials Center** | College Park, MD | May 2018 – Aug 2019

* Employed flux method to grow varying crystal samples and measured them to observe physical properties
* Presented weekly progress reports of crystal growths to supervisors and peers
* Created and managed secure access database using visual basic containing over 1,000 growth entries

**Teaching Fellow**

**UMD PHysics Deptartment** | College Park, MD | Aug 2019 – Aug 2020

* Led weekly discussion sessions to engage students in lecture concepts
* Held weekly office hours to assist students in solidifying understanding outside of class
* Graded homeworks, quizzes, and tests in timely manner

**Mathematical Researcher**

**Naval Research Laboratory** | Washington, DC | Jan 2021 - Present

* Research, design, and implement over 14 decentralized optimization algorithms to study theoretical and computational performance
* Stay up to date on latest research on distributed optimization, multi-agent task allocation, and pose graph optimization
* Develop and maintain python environment to efficiently perform numerical experiments

**EXPERIENCE**

**Bachelor of Science – Mathematics**

**Bachelor of Science – Physics**

**University of Maryland** – College Park, MD | 2016 – 2020 | GPA: 3.85/4.0

Department of Computer, Mathematical, and Natural Sciences

**Masters of Science - Applied Mathematics and Statistics**

**Johns Hopkins** – Baltimore, MD | 2020 – 2022 | GPA: 3.64/4.0

Whiting School of Engineering | Specialized in Optimization and Operations Research

**EDUCATION**

**Data Scientist**

**Daniel Kraft**