Daniel Mohr

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A recent graduate of Loyola University Chicago in Physics and Mathematics, seeking work in data analysis and software development. **Willing to relocate immediately at my own expense upon hire.**

SKILLS

- Programming
    - Python, C
- Data Analysis
    - Pandas, R, Mathematica, SQL, upper division coursework in statistics
- Git
- Experience with technical writing and presenting at conferences
- Digital and analog electronics development and troubleshooting
- Very proficient with Microsoft Office
- Experience with GIS

EDUCATION

Loyola University Chicago: BS in Physics, minor in Mathematics (December 2020)

WORK

September 2020-Present: TinkRworks, Inc.

Fulfillment Specialist

Using Python and Microsoft Excel to develop customized Enterprise Resource Planning software. Testing and programming microprocessors and Arduino components of STEM education kits.

April 2016-August 2017: REI Oakbrook Terrace

Operations Specialist

Unloading shipments of products, sorting them, installing theft prevention devices, stocking them for sale on the floor. Helping customers find products or answering questions

RESEARCH EXPERIENCE

August 2019-May 2020: Loyola University Chicago Department of Physics

Supervisors: Robert Polak, PhD, Jon Bougie, PhD

Studying ways to improve an electric barrier that keeps invasive species out of the Great Lakes. Involved studying models of the barrier in the lab and making simulations/calculations of the field projected by the barrier using numerical methods and Mathematica.

August 2018-March 2019: Remote Collaboration

Supervisor: Caitlin Ahrens, PhD

Using JMARS to create a database of craters on and near volcanoes on Mars. Crater morphologies were compared between craters on and off of lava flows to determine if there is a significant difference.

September 2014-June 2015: Colorado State University Department of Atmospheric Science

Supervisor: Russ Schumacher, PhD

USDA funded research project, analyzing weather data from stations around the United States using R to determine which months of the year had weather conditions most conducive to the spread of diseases in livestock.

PRESENTATIONS/PUBLICATIONS

Mohr, D. & Ahrens, C. (2019, March). *Ejecta Mobility and Lobateness of Martian Impact Craters On and Off Volcanic Lava Field Boundaries.* Poster session presented at 50th Lunar and Planetary Science Conference, The Woodlands, Texas.

Brito, H., Mohr, D., Pearce, J., Polak, R., Strom, R., Thielemeier, M. (2019, April). *Studying Rolling Motion.* Oral presentation at Chicago Section of American Association of Physics Teachers 2019 Spring Meeting, Chicago, Illinois.