Raeesa Parker, PhD

Aspiring Web Developer

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Portfolio:
raeesaparker.github.io/portfolio/

LinkedIn
linkedin.com/in/raeesa-parker/

GitHub
github.com/RaeesaParker

Technical Stack

HTML | CSS | Javascript | Bootstrap | React | SQL | MongoDB | Git | Node.js

Soft Skills

Analytical | Problem Solving | Communication | Teamwork | Time Management | Persistent

ABOUT ME

A former astrophysicist turned full stack web developer with experience in React and Node.js. Recently completed an intensive web development bootcamp covering both front- and back-end technologies. Currently seeking an exciting developer role in a dynamic environment.

KEY SKILLS

Analytical Thinking	**Extensive data analysis performed in PhD** Over 1000 observations were analysed as part of doctoral degree. These were then compared to numerical smooth particle hydrodynamic simulations.
Problem Solving	**Overcame Numerous setbacks during PhD** Worked to overcome numerous setbacks as part of the doctoral degree, including telescope failures and null results.
Communi-cation	**Collaborated on various development applications** Worked as part of numerous teams to produce various applications. Ensured that written code was well commented and logical.
Teamwork	**Working on collaborative projects** Part of international astronomy collaborations working on various projects related to star and planet formation.
Time Management	**Working on various projects simultaneously** Worked on several, independent project as part of doctoral degree; each with their own schedules and deadlines.
Persistant	**Deugging performed during development process** Regularly work to debug code as part of the development process. Diligent in making sure the code is functional before continuing.

EXPERIENCE

Sept 2022 - Dec 2022

Codenation Web Development Bootcamp

Twelve week intensive coding bootcamp covering both front- and back-end technologies.

- Explored a range of technologies including HTML, CSS, Javascript, React, Node.js, MongoDB and SQL.
- Developed logical, efficient, and dynamic code solutions combining numerous frameworks.
- Utilised Git and Github for version control management.

Achievements

Published Author

Taxonomy of protoplanetary discs observed with ALMA

Publication in the Monthly Notices of the Royal Astronomical Society, based on work conducted in PhD.

DOI: 10.1093/mnras/stac152

Second Degree Black Belt

A practitioner of TaeKwonDo for the past decade, with a current rank of second degree black belt. Working towards obtaining a third degree ranking in 2023.

Interests

TaeKwonDo | Travelling | Countryside Walking | Cooking | Cycling | Reading

References

Professor Derek Ward-Thompson

Director of Jeremiah Horrocks Institute of Maths, Physics and Astronomy

University of Central Lancashire

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Dr. Jason Kirk

Research Astrophysicist
Senior Lecturer

University of Central Lancashire

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May 2021 - Aug 2021 **Research Assistant in Astronomy** **Univ. Central Lancashire**

Post-Doctoral Research Assistant in Astronomy with a particular focus on early star formation.

- Part of an international collaboration studying the collapse of molecular clouds in young stellar systems.
- Quantitative data collection and analysis using both observational and theoretical data.
- Planned direction of research and steered group meetings.

Sept 2018 - May 2020 **Assistant Laboratory Demonstrator** **Univ. Central Lancashire**

Assisted in the teaching of the undergraduate experimental physics laboratory modules.

- Demonstrated various experiments whilst providing assistance with mathematics and physics problems.
- Marked solutions as well as providing constructive feedback.

EDUCATION

Jan 2018 - Mar 2022 **PhD in Astrophysics** **Univ. Central Lancashire**

Title: Investigations of Planet Formation in Circumstellar Discs Around Young Stars.

Abstract: A study of early planet formation with a particular focus on dust dynamics. Analytical data analysis was performed on radio observations, and subsequently compared to smooth particle hydrodynamic simulations.

Jan 2017 - Dec 2017 **MSc. in Astrophysics** **Univ. Central Lancashire**

Title: Radio Observations of Discs around Young Stellar Objects

Abstract: As part of an international collaboration, PEBBLeS, cutting-edge radio observations of young stars were conducted in order to detect the earliest stages of planet formation.

Sep 2013 - May 2016 **BSc. in Astrophysics** **Univ. Central Lancashire**

Project Title: Detecting Extrasolar Planets.

Grade: 2:1 (Upper Second)