Dr. Gráinne Costigan

An extended portfolio can be found at gcostigan.com

Working in the most competitive and notable astronomy institutes in Europe, and the largest current European space telescope has given me strong team working skills, with a focus on attaining the end goal using innovative techniques and tools. I am looking forward to the next challenge of using my scientific knowledge and outreach and teaching experience to make an impact in the field of data science.

Research Associate

Leiden University & ESA's Gaia spacecraft April 2014 - Current

PhD Student

ESO, Munich DIAS, Dublin Dec. 2009 – Nov. 2013

Research Associate

Dundee University, UK Oct. 2008 – Aug. 2009

City Astronomer

Dundee, Scotland Oct. 2008 – Aug. 2009

PhD Dec. 2014

Masters 2007 – 2008

Bachelors 2003 – 2007

EXPERIENCE

- Member of data processing consortium of Gaia (European big data driven space observatory).
- · Participated in the development of the data archive & the validation of data.
- Took a lead role in beta testing of archive and the development of the long term data and software preservation plan.
- · As a researcher in Leiden University I also had the opportunity to design and supervise multiple student projects.
- · By the end of my PhD I was affiliated with 4 different institutes, with a supervisor in each. This forced me to develop effective communication skills, independent work ethic and good project development skills.
- · Presented scientific results at multiple international conferences.
- · Learnt to work as an effective team member locally and remotely.
- · Implemented and developed computer vision algorithms for planetary rover navigation.
- · Lead the outreach program in the local public observatory.
- · Gave weekly public lectures, with night sky and planetarium tours.
- · Wrote a monthly astronomy column in local newspaper.
- · Held astronomy and art workshops for children in conjunction with local artists.

EDUCATION -

Graduated Queen's University Belfast (Northern Ireland), PhD in Star formation. Title: Accretion Variability in Young Stellar Objects

Cambridge University (UK), Master of Mathematics. CASM Part III

Trinity College Dublin (Ireland), Theoretical Physics, BA (mod)

COMMUNITY INVOLVEMENT -

Feb. 2017 – Now DataKind is a group of da

DataKind is a group of data science volunteers working together to help NGOs. Part of the work is to demonstrate and educate the NGOs on the power of data science and what it can be learnt from it.

A non-profit organisation working for the promotion and use of open data. Working within a multi-discipline group of volunteers to analyse hospital waiting list data.

Science teaching in a primary school as part of a three week voluntary placement. Designed and implemented program for all classes from 7 to 12 years old. Full class outline (gcostigan.com/communication).

Sept. 2016

Open Knowledge

Ireland.

DataKind, Dublin.

March 2017 – Now

Bogotá, Colombia

TECHNICAL SKILLS

Python. MATLAB/Octave. MIDAS (FORTRAN based). ADQL (astronomical SQL). IDL. Bash. Latex. Unix.

Github accout: github.com/twotonnetess