

Dr. Gráinne Costigan

An extended portfolio can be found at gcostigan.com
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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.

EXPERIENCE

Research Associate

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

- 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.

PhD Student

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

- 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.

Research Associate

Dundee University, UK
Oct. 2008 – Aug. 2009

- Implemented and developed computer vision algorithms for planetary rover navigation.

City Astronomer

Dundee, Scotland
Oct. 2008 – Aug. 2009

- 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

PhD

Dec. 2014

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

Masters

2007 – 2008

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

Bachelors

2003 – 2007

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

COMMUNITY INVOLVEMENT

Feb. 2017 – Now

DataKind, Dublin.

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.

March 2017 – Now

Open Knowledge
Ireland.

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.

Sept. 2016

Bogotá, Colombia

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).

TECHNICAL SKILLS

Python. MATLAB/Octave. MIDAS (FORTRAN based). ADQL (astronomical SQL). IDL.
Bash. Latex. Unix.
Github account: [twotonnetess.github.io](https://github.com/twotonnetess)