

Dr. Gráinne Costigan

An extended portfolio can be found at gcostigan.com
grainne@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 encourage the next generation of young scientist into STEM subjects.

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

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).

Oct. 2015
Leiden, NL

Co-Organiser of Interdisciplinary seminar on Medical Imaging and Astronomy. In connection with Erasmus Medical centre (Rotterdam)

Oct. 2015 ESA
(ESTEC), Netherlands.

Co-organiser of the 'Accretion and Outflows: Exchanging Mass, Momentum and Ideas' workshop at the European Space Agency.

TECHNICAL SKILLS

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