

MICHAEL MCGLOIN

MATHEMATICAL SCIENCE GRADUATE
EXPECTED FIRST CLASS HONOURS

CONTACT

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📍 Galway

🌐 <https://bitbucket.org/mcwiga/>
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SKILLS

- Python, C, C++, R, MATLAB
- Topological Data Analysis - TDA-Mapper, R-TDA, Ripser
- [Video Editing](#) and [3D Compositing](#) - Cinema 4D, Arnold, Adobe After Effects
- Web Design - JavaScript, ReactJS, Wordpress, HTML & CSS
- SEO - Keyword optimisation using Semrush
- LaTeX, Excel, PowerPoint, Word
- Statistical Analysis - Regression Models, Hypothesis Testing, Bayesian Modelling

EXTRA-CURRICULAR

- Treasurer - Rock Soc, NUIG
2019-2022
- Drummer - [Undercover Martians](#)
- Surfer
- PRO Music Society NUIG, 2020

PROFILE

A mathematics graduate with a broad range of technical skills and a proficiency in mathematical modelling. A proven problem solver with a passion for developing new skills and applying them to problems, particularly those well tackled from a mathematical perspective.

EXPERIENCE

National University Ireland Galway, Galway — *Mathematical Research*

Summer 2021

- 6 week internship carrying out research in graph theory with a fellow maths student and a professor in the field.
- Compiled a [report](#) of our findings and presented it to fellow peers and professors.

Freelancer — *Video Editing, Website Design, Marketing, Maths Tutoring*

- Video Editing - [SecureRTC Exchange](#) , [Student Grinds](#)
- Website Design - [Woodisbeautiful.ie](#) , [eointecsolutions.com](#)
- Started a [marketing business](#) distributing fliers for various companies.
- Developed and delivered live to students, a series of [Leaving Certificate Mathematics](#) videos using the moodle learning platform.

Front End Developer Internship — *Eointec Solutions*

May 2020 - August 2020

- Developed the front end for a sales video conferencing platform using ReactJS.
- This included creating components for contact forms, payment methods, login forms etc.
- Self taught using google and youtube.

AWARDS

- Awarded title of University Scholar (2020, 2021)
- RLSS Beach Lifeguard
- BT Young Scientist Exhibition Award

Turf 'n' Surf, Bundoran — *Surf Instructor*

2017-2020

- Conducted lessons as part of a team and ensured customers had a satisfactory experience.
- Observed possible safety hazards and carried out lessons in a safe manner.

EDUCATION

National University Ireland Galway, Galway — *B. Sc. Mathematical Science*

2018-2022

- Studied modules in pure mathematics, statistics, applied mathematics, physics and computer science.
- Currently achieving a first class honours.

Magh Ene College, Bundoran, Co. Donegal

2012-2018

- Leaving Cert Points : 544

PROJECTS

Twistor Theory And Its Applications — Final Year Thesis

- This project focused on Penroses Twistor Theory and looked at its applications to solving Laplace's equation in both 3 dimensional Euclidean Space and 4 dimensional Minkowski Space.
- The thesis can be found [here](#).

National University Ireland Galway, Galway — *Stokes Modelling Workshop*

Summer 2021

- One week workshop focused on modelling physical situations mathematically.
- Worked in a team of 4 to model the vibration of guitar strings mathematically using both numerical and analytic methods in MATLAB.
- Compiled a [report](#) of our findings and presented it to fellow peers and professors for which we won an award.