KENNY PANG

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EDUCATION

📅 Sept 2015 – May 2019

BSc Applied and Computational Mathematics
University College Dublin, Ireland

First Class Honours

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📅 Sept 2019 – Ongoing

PhD Data Science
University College Dublin, Ireland

Supervised by Dr. Lennon Ó Náraigh and Dr. Richard J. Smith

RESEARCH & TUTORING EXPERIENCE

📅 Sept 2019 – Ongoing

Tutor and demonstrator
UCD School of Mathematics and Statistics

- Tutor of various undergraduate Mathematics and Statistics modules.

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📅 Sept – Oct 2018

Maths Sparks problem solving workshop volunteer
UCD School of Mathematics and Statistics

Supervised by Dr. Aoibhinn Ní Shúilleabháin and Dr. Anthony Cronin

- Design a workshop on logical machine and punch cards. Targeted to senior year post-primary students. Teaching resources available at Maths Sparks Vol III, 72-109.
- Facilitate and guide students during workshops.

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📅 Jun – Aug 2018

Undergraduate Research Project
UCD School of Mathematics and Statistics

Supervised by Dr. Lennon Ó Náraigh and Dr. Andrew Gloster

- See publication 1 and 2.

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📅 Jan – May 2018

Undergraduate Ambassador
UCD School of Mathematics and Statistics

Supervised by Dr. Aoibhinn Ní Shúilleabháin

- Design and deliver an 8-weeks module on 3D geometry using 3D modelling software. Targeted to senior year post-primary students. Lesson Report available online.

INTEREST & MOTIVATION

My research interest is in PDEs, numerical methods, computer graphics, and algorithm designs in general. I am also passionate about teaching and Maths communication through visualization.

Game and software development is a side hobby of mine. Some notable projects include an interactive slides on 4D rotation for a public lecture I gave and a 3D cloth simulation written from scratch.

PUBLICATION

1. A. Gloster, L. O'Naraigh and K.E. Pang, *Comput. Phys. Commun.* **241**:113 (2019)
2. L. O'Naraigh and K.E. Pang, *IMA J. Appl. Math.* **84**(4):669 (2019)
3. K.E. Pang and L. O'Naraigh, *Environ. Fluid Mech.* arxiv:2107.10732
4. In preparation
5. In preparation

SKILLS PROFILE

Programming: MATLAB Python Lua C TensorFlow OpenFOAM

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Language: English Chinese Malay

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Other: Git LaTeX Blender LÖVE

AWARDS & INVOLVEMENT

- 2017, 2018 Ad Astra Academic Award recipient.
- 2019 Mathematical Contest for Modelling successful participant.
- 2020 Conway Gold Medal recipient.
- 2021 UK Graduate Modelling Camp participant.