Vinh Quang Vu

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🎓 Education

PhD – Fluid Dynamics   2018 – Present
University of Sheffield   *Sheffield, UK*

Joint PhD student at the School of Mathematics and Statistics, and the Department of Mechanical Engineering at the University of Sheffield.

MEng Aerospace Engineering - 2:1   2014 – 2018
University of Sheffield   *Sheffield, UK*

🕓 Teaching Experience

Graduate Lead Demonstrator - Mathematics   October 2019 – Present
University of Sheffield   *Sheffield, UK*

> Led tutorials for foundation and second year undergraduate students
> These tutorials are Foundational Mathematics (MAS004), which includes complex numbers, vectors and advanced calculus methods. And Further Civil Engineering Mathematics (MAS252) which includes non-linear equations, ordinary and partial differential equations and Fourier Series.
> Demonstrated and solved problems to large class of 50-100 undergraduate students to improve student understanding of the topic.

Graduate Teaching Assistant - Mathematics   September 2018 – Present
University of Sheffield   *Sheffield, UK*

> Taught Python, Latex and HTML to first and second year undergraduate Maths students. (MAS115, MAS212)
> Taught numerical methods to second year Mechanical Engineering students. (MAS254)

Graduate Teaching Assistant - Engineering   September 2018 – Present
University of Sheffield   *Sheffield, UK*

> Taught Engineering students how to use ANSYS Fluent and guided their learning of Computational Fluid Dynamics (CFD). (AER298, MEC320, MEC208)
> Taught and provided guidance for forth year undergraduate engineering students whose dissertation projects had complex CFD problems.
> Taught XFoil to 3rd year undergraduate Aerospace students, and assisted them in designing an aircraft with respect to the aerodynamics. (AER325)
> Mentored two teams of Postgraduate engineering students and guided them on their research project. (MEC6401)

Private Maths Tutor   August 2019 – Present
                                                                                       Sheffield, UK

> Tutoring Maths at A level students and below. Additionally this also includes tutoring UKMT questions and broadening students' understanding of Mathematics.
> Tutored face to face before COVID, and now tutoring online via video calls and online whiteboards. (Google Hangouts and Whiteboard Fox)

Best Tutors   September 2013 – July 2014
GCSE Maths Tutor   *London, UK*
> Taught GCSE level Maths to group of 3-4 students for 2 hour lessons
> Assessed them with tests, marked and set homework for them

⚗ Projects

Space Weather Monitor Development Assistant   Jan 2018 – July 2018
> Worked on a website that showed Solar weather activity in a convenient interface.
> Processed data inputs using Python and applied data analytical methods such as clustering to identify sunspots using various python modules such as Numpy and Sklearn.

Industrial Training programme with Siemens   September 2017 – December 2017
> Worked alongside Siemens to optimise an instrument measuring pollutants in a security sensitive environment.
> Proposed numerous preliminary designs and conducted a comprehensive CFD analysis on the designs.
> Siemens were impressed with the improvement of the design and moved the design for further analysis by it's own engineers. The project assessors gave a first for the design and analysis.

⚙ Skills

Programming Languages   Python (Fluent), MATLAB (Fluent), C++ (Proficient), C (Proficient), Bash (Proficient), R (Proficient)

Languages Spoken   English (Native), Vietnamese (Mother Tongue), French (Beginner)