

DR KAYVAN NEJABATI ZENOZ

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PROFESSIONAL SUMMARY

Research professional with expertise in data science, software development, statistical modelling, R/Python/Matlab programming, and pure mathematics. Experience of working in the industry and academia enhancing business productivity and educational standards through the delivery of data science and research projects, as well as design and management of mathematics, statistics, and data science courses. Highly motivated and strong leader envisaging positions with significant involvement in leading and building teams of data scientists and implementing data modelling solutions.

PROFESSIONAL EXPERIENCE

Senior Data Scientist, Legal and General *Jun 2022 - Present*

Lecturer in Mathematics, University of Greenwich *Jul 2019 - Jun 2022*

- Design, delivery, and management of technologically advanced new courses for BSc Mathematics and BSc Computing contributing to enhancing the educational curriculum.
- Building students' employability skills through the development of R/Shiny programming data science workshops.
- Design and delivery of research projects in algebra, number theory, statistics, and data science, and dissemination of results in conferences.
- Developing students' research skills through supervision of final year mathematics and data science research projects.

Teaching Fellow in Mathematics, Oxford Brookes University *Oct 2018 - Jul 2019*

- Enhancing the department's curriculum by delivery and management of BSc Mathematics and MSc Data Analytics courses in collaboration with the Office for National Statistics.
- Completed Postgraduate Certificate in Teaching in Higher Education course achieving the fellowship of the Higher Education Academy.

Pricing Analyst, ERV (ERGO) Travel Insurance *Jun 2018 - Oct 2018*

- Designing optimal pricing strategy by creating and validating statistical rating models in collaboration with stakeholders.
- Enhancing business productivity through automation of reporting, reserving, and price optimisation by creating RShiny applications.

Postdoctoral Research Associate, University of Edinburgh *Mar 2018 - May 2018*

- Researching new knowledge and scientific understanding in algebra and number theory with applications to mathematical physics supported by an ERC Advanced grant.

EDUCATION

Fellow of the Higher Education Academy, Oxford Brookes University *Jul 2019*

PhD in Mathematics, University of Exeter, EPSRC Funded *Sep 2014 - Feb 2018*

Master's in Mathematics Class I, University of Exeter *Sep 2010 - Jul 2014*

A-Levels, Woking College *Sep 2007 - Jul 2010*

PUBLICATIONS

- On Autoregressive Component of Crime Time Series**, preprint *Dec 2021*
<http://www.nejabatiz.com/Files/ACCTS.pdf>
- Some Braces of Cardinality p^4 and Related Hopf-Galois Extensions** (with D. Puljić and A. Smoktunowicz), New York Journal of Mathematics *Sep 2021*
<https://arxiv.org/abs/2106.13735>
- Skew Braces and Hopf-Galois Structures of Heisenberg Type**, J. Algebra *Jan 2019*
<https://doi.org/10.1016/j.jalgebra.2019.01.012>
- A Statistical Modeling Framework for Characterising Uncertainty in Large Datasets: Application to Ocean Colour** (with P. Land, T. Bailey, M. Taberner, S. Pardo, S. Sathyendranath, V. Brammall, J. Shutler, and G. Quartly), Remote Sens *May 2018*
<https://doi.org/10.3390/rs10050695>
- On Hopf-Galois Structures and Skew Braces of Order p^3** , PhD Thesis *Jan 2018*
<https://ore.exeter.ac.uk/repository/handle/10871/32248>

SELECTED PRESENTATION AND CONFERENCES

- Hopf Algebras and Galois Module Theory, **University of Nebraska Omaha** *24-27 May 2021/20*
- The Leslie Comrie Seminar Series, **University of Greenwich** *20 Nov 2019*
- Algebra Seminar, **University of Glasgow** *20 Jun 2018*
- MAXIMALS Seminars, **University of Edinburgh** *15 May 2018*
- Mathematics Seminar Series, **University of Tehran** *21-25 Apr 2018*
- Groups, Rings and the Yang-Baxter Equation, Spa, **Belgium** *18-24 Jun 2017*

TEACHING CURRICULUM DEVELOPMENT

University of Greenwich Jul 2019 - Present
Lecturer in Mathematics *London, UK*

Successful development, delivery, and management of interactive and student-centred courses on

- **Probability and Statistics with R** (Level 5, Term 2, BSc Computing and Mathematics)
- **Vector Calculus** (Level 5, Term 2, BSc Mathematics)
- **Python Programming for Mathematics** (Level 4, Term 2, BSc Mathematics)
- **Vectors and Matrices** (Level 4, Term 1, BSc Mathematics)
- **Data Analytics Software Development via RShiny and RMarkdown** (Workshop)

Oxford Brookes University Oct 2018 - Jul 2019
Teaching Fellow in Mathematics (and Statistics) *Oxford, UK*

Lead and delivered in collaboration with the ONS courses on

- **Statistical Programming with R** (Level 7, Term 1, MSc Data Analytics)
- **Survey Fundamentals** (Level 7, Term 2, MSc Data Analytics)
- **Statistics in Government** (Level 7, Term 2, MSc Data Analytics for Government)
- **Modelling with MATLAB** (Level 6, Term 1, BSc Mathematics)
- **Quantitative Research Methods with SPSS** (Level 5, Term 1, BSc Mathematics)
- **Numerical Analysis with MATLAB** (Level 5, Term 2, BSc Mathematics)