

# John Mitros

## Curriculum Vitae

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📄 [jmitros.github.io](https://jmitros.github.io)

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### Research Interests

Fields Robust Machine Learning, Statistics, Optimisation, Out-of-Distribution Generalisation

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### Education

2017–2022 **PhD, Computer Science**

University College Dublin, Ireland

2013–2014 **MSc, Computer Science**

Aristotle University, Greece

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### Experience

2016–2017 **Research Assistant**, *University College Cork*, Ireland

Activities: Investigating robust machine learning estimators and methods to defend against adversarial examples.

2015–2016 **Lecturer**, *Griffith College Cork*, Ireland

Activities: Teaching course on design and analysis of algorithms for computer scientists.

2014–2015 **Research Assistant**, *University of Trento*, Italy

Activities: Investigating machine learning estimators for medical image analysis and diagnosis, automated deployment and analysis of medical imaging.

2012–2013 **Developer**, *MyCompany*, Greece

Activities: Design, development and maintenance of web applications including websites, web portals, e-shops and online sms campaigns

2011–2012 **Developer**, *EpsilonNet*, Greece

Activities: Troubleshooting issues in SQL databases, automating activities using T-SQL scripting, and producing system load reports of malfunctioning and usage statistics.

2010–2011 **Developer**, *Heletel Ltd*, Greece

Activities: Identify customers needs, design, development and maintenance of web applications including websites, web portals, e-shops including server administrator duties.

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### Skills

OS Linux, Mac, Windows

Compiled C/C++, Java

Scripting Shell, Python

DeepLearning Pytorch, Keras, Tensorflow

Scientific MATLAB, SPSS,  $\text{\LaTeX}$

Web Design HTML, CSS, JavaScript, PHP

RDBMS MySQL, PostgreSQL

IDE Emacs, Vim, VS Code, Eclipse

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## Open Source

GitHub [github.com/kirk86](https://github.com/kirk86)  
MATLAB [matlabcentral/fileexchange/authors/352200](https://matlabcentral/fileexchange/authors/352200)

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## Publications

### Refereed Articles

John Mitros and Brian Mac Namee. On the importance of regularisation and auxiliary information in ood detection. In *International Conference of Neural Information Processing, (ICONIP)*, 2021.

John Mitros, Arjun Pakrashi, and Brian Mac Namee. Ramifications of approximate posterior inference for bayesian deep learning in adversarial and out-of-distribution settings. In *Proceedings of Computer Vision - (ECCV) Workshops*, volume 12535 of *LNCS*, pages 71–87. Springer, 2020.

John Mitros, Arjun Pakrashi, and Brian Mac Namee. A comparison of bayesian deep learning for out of distribution detection and uncertainty estimation. In *Proceedings of the 37th International Conference of Machine Learning - (ICML) Workshops*, volume 119, 2020.

John Mitros and Brian Mac Namee. On the validity of bayesian neural networks for uncertainty estimation. In *Proceedings of the 27th Irish Conference on Artificial Intelligence and Cognitive Science - (AICS)*, volume 2563 of *CEUR Workshop Proceedings*, pages 140–151, 2019.

John Mitros and Brian MacNamee. A categorisation of post-hoc explanations for predictive models. In *Association for the Advancement of Artificial Intelligence - (AAAI) Spring Symposia on Story-Enabled Intelligence*, 2019.

John Mitros, Derek Bridge, and Steven Prestwich. Denoising dictionary learning against perturbations. In *Proceedings of the 32nd Association for the Advancement of Artificial Intelligence - (AAAI) Workshops*, 2018.

### Preprints

John Mitros. *Content-based image retrieval tutorial*, 2016. arXiv:1608.03811.