

# Catherine Tong

## Curriculum vitae

CONTACT INFORMATION	Department of Computer Science University of Oxford Oxford, UK OX1 3QD	Mobile: +44 7984340665 E-mail: <a href="mailto:egctong@gmail.com">egctong@gmail.com</a>
EDUCATION	<b>DPhil, Computer Science</b> , University of Oxford 10/2017 - Present <ul style="list-style-type: none"> <li>Research topic: Deep Learning Methods with Healthcare Applications</li> <li>Advisor: Assoc. Prof. Nic Lane</li> <li>Funded by UK EPSRC</li> </ul> <b>MPhys, Physics</b> , University of Oxford 10/2013 - 07/2017 <ul style="list-style-type: none"> <li>First Class Honours</li> <li>Thesis Title: <i>Diffusing Workers in a Multiplex World</i></li> <li>Major Options: Theoretical Physics, Atmospheric Physics</li> </ul>	
AWARDS	Department of Physics, University of Oxford <ul style="list-style-type: none"> <li>Examiners' Commendation for Practical Work in Physics, 2015-2016</li> </ul> New College, University of Oxford <ul style="list-style-type: none"> <li>College scholarship for outstanding performance in exams, 2013-2017</li> </ul>	
PUBLICATIONS	Poster: A Large-scale Study of Networked Appliance and Mobile Device Data for Big-Five Personality Inference; accepted. <b>C. Tong</b> , G. M. Harrari, N. D. Lane The 15th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys '18), June 2018, Munich, Germany.  Deterministic Binary Filters for Convolutional Neural Networks; accepted. V. Tseng, S. Bhattacharya, J. Fernández Marqués, M. Alizadeh, <b>C. Tong</b> , N. D. Lane International Joint Conference on Artificial Intelligence (IJCAI '18), July 2018, Stockholm, Sweden.  Multimodal Deep Learning for Activity and Context Recognition V. Radu, <b>C. Tong</b> , S. Bhattacharya, N. D. Lane, C. Mascolo, M. K. Marina, F. Kawsar Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), Volume 1 Issue 4, and The 2018 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp '18), October 2018, Singapore.  [Working Paper] Diffusing Workers in a Multiplex World <b>C. Tong</b> , O. Guerrero, E. Lopez, F. Reed-Tsochas	
SELECTED EXPERIENCE	<b>Research Assistant</b> , Nokia Bell Labs, Cambridge 06-09/2017 <ul style="list-style-type: none"> <li>Performed investigations of multimodal deep learning models.</li> <li>Built machine learning models for human behavioral multimodal data;</li> <li>Advisor: Assoc. Prof. Nic Lane</li> </ul> <b>Research Assistant</b> , Saïd Business School, University of Oxford 06-09/2016 <ul style="list-style-type: none"> <li>Formulated and solved a Markov model on multiplex networks to describe the movement of labour across the economy;</li> <li>Data analysis and model implementation on UK labour survey data.</li> </ul>	

- Advisors: Assist. Prof. Eduardo Lopez, Dr. Omar Guerrero

**Research Project**, University of Oxford 12/2015-01/2016

- Verified physical properties of binary eclipse RCMA with previous literature;
- Computed photometric curves and suggested evolution scenarios for the binary stars.
- Advisor: Dr. Laura Lauro-Taroni

**Consultant Intern**, Mercer, London 06-08/2015

- Analysis of employee insurance benefits of multinational companies

**Intern**, Poba Software, Beijing 06-07/2014

- Supported in the conception and control of an Office Automation System project

#### ACTIVITIES

- Organizer, Oxford Emerging Tech Party, 2018
- Committee, Women in Computer Science Society, 2017-2018
- Undergraduate Mentor, Oxford Women in Physics Society, 2014-2017

#### TEACHING EXPERIENCE

- Private Tutor in Mathematics and Physics, 2011-2016
- Volunteer Tutor in English and Mathematics, Jacari Oxford, 2014-2015

#### ACADEMIC REFERENCES

**Nic Lane** (e-mail: [nicholas.lane@cs.ox.ac.uk](mailto:nicholas.lane@cs.ox.ac.uk))

- Associate Professor, Computer Science, University of Oxford

**Eduardo Lopez** (e-mail: [elopez22@gmu.edu](mailto:elopez22@gmu.edu))

- Assistant Professor, Computational and Data Sciences, George Mason University

**Joseph Conlon** (e-mail: [joseph.conlon@physics.ox.ac.uk](mailto:joseph.conlon@physics.ox.ac.uk) )

- Professor, Theoretical Physics, University of Oxford