

Louis Tiao

Ph.D. Candidate
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Education

Ph.D. Computer Science, University of Sydney <i>Supervisors:</i> Edwin Bonilla, Fabio Ramos	2017– Sydney, Australia
B.Sc. (Honours 1 st Class) Computer Science, University of New South Wales <i>Major concentrations:</i> Mathematics, Artificial Intelligence	2011–2015 Sydney, Australia

Employment

Applied Scientist Intern Amazon <i>Hosts:</i> Matthias Seeger, Cédric Archambeau	Jun 2019 – Dec 2019 Berlin, Germany
Research Software Engineer CSIRO Data61	Jun 2016 – Apr 2019 Sydney, Australia
Research Software Engineer National ICT Australia (NICTA)	Jun 2015 – Jun 2016 Sydney, Australia
Research Intern Commonwealth Scientific and Industrial Research Organisation (CSIRO)	Nov 2013 – Feb 2014 Sydney, Australia

Publications

1. P. Elinas, E. V. Bonilla, and **L. Tiao**. Variational Inference for Graph Convolutional Networks in the Absence of Graph Data and Adversarial Settings. In *Advances in Neural Information Processing Systems (NeurIPS) 33*, December 2020. To appear as **“Spotlight Presentation”** (Top 3%)
2. **L. Tiao**, P. Elinas, H. Nguyen, and E. V. Bonilla. Variational Graph Convolutional Networks. In *NeurIPS2019 Graph Representation Learning*, Vancouver, Canada, December 2019. Accepted as **“Outstanding Contribution Talk”**
3. **L. Tiao**, E. V. Bonilla, and F. Ramos. Cycle-Consistent Adversarial Learning as Approximate Bayesian Inference. In *ICML2018 Theoretical Foundations and Applications of Deep Generative Models*, Stockholm, Sweden, July 2018. Accepted as **“Contributed Talk”**

PREPRINTS

4. A. Klein, **L. Tiao**, T. Lienart, C. Archambeau, and M. Seeger. Model-based Asynchronous Hyperparameter and Neural Architecture Search. *arXiv preprint arXiv:2003.10865*, June 2020.

THESIS

5. **L. Tiao**. Robust Non-convex Optimization in Reputation Aggregation Systems. *Undergraduate Honours Thesis (Advisor: Aleksandar Ignjatovic)*, May 2015.

Awards

Australian Government Research Training Program (RTP) Scholarship (Full funding)	2017–
CSIRO Data61 Postgraduate Research Scholarship	2017–
UNSW Faculty of Engineering Dean’s Honours List for Academic Excellence	2013, 2014
UNSW School of Computer Science and Engineering 3 rd Year Undergraduate Performance Prize	2013

Software

1. AutoGluon: An AutoML toolkit for Deep Learning 2019–
Amazon Web Services (AWS) Labs, **L. Tiao** (*a core developer of the Gaussian process-based multi-fidelity searcher module*)
2. Aboleth: A minimalistic TensorFlow framework for scalable Bayesian Deep Learning 2017
D. Steinberg, L. McCalman, **L. Tiao**
3. revrand: A Python library for scalable Bayesian Generalized Linear Models 2015
D. Steinberg, **L. Tiao**, L. McCalman, A. Reid and S. O’Callaghan
4. Scientific Python: Contributions to the releases of TensorFlow 1.3.0rc1, scikit-learn 0.19.1, SciPy 0.17.0, NLTK 3.0b1, Cartopy 0.14.1, and others 2014–

Teaching

1. Teaching Assistant | University of New South Wales 2017, 2018
COMP9418 – Advanced Topics in Statistical Machine Learning Sydney, Australia

Professional Service

JOURNAL REVIEWING

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)	2019–
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PROGRAM COMMITTEE

Reviewer: ICML2020 Workshop on Graph Representation Learning and Beyond	2020
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PROFESSIONAL MEMBERSHIPS

Institute of Mathematical Statistics
Bernoulli Society

Talks

1. Amazon Machine Learning Community Tech Talks 2019
BERLIN, GERMANY
2. ICML Theoretical Foundations and Applications of Deep Generative Models Workshop 2018
STOCKHOLM, SWEDEN