

Bui Thi Mai Phuong

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EDUCATION

PHD COMPUTER SCIENCE

IST AUSTRIA: ADVISOR CHRISTOPH LAMPERT
September 2016 – to date

- Rotation 1 with Jan Maas: Theory of sparse random dimensionality-reducing maps.
- Rotation 2 with Christoph Lampert: Curriculum learning and transfer in reinforcement systems.
- Rotation 3 with Gasper Tkacik: Weight swapping in ensembles of neural networks.

MSC QUANTITATIVE FINANCE

WIRTSCHAFTSUNIVERSITÄT WIEN
September 2014 – July 2016

- Thesis with Kurt Hornik: Comparison of boosting-based methods for ordinal classification.
- GPA: 1.03 (1 = excellent, 5 = fail).
- Holder of merit-based scholarship.

BSC APPLIED MATHEMATICS

COMENIUS UNIVERSITY BRATISLAVA
September 2011 – June 2014

- Thesis with Roman Rosipal: Probabilistic modelling and classification of sleep EEG data.

UNIVERSITY OF SHEFFIELD,
SCHOOL OF MATHEMATICS & STATISTICS
February 2013 – June 2013

- Joint GPA: 1.00 (1 = excellent, 5 = fail).
- 3x holder of merit-based scholarship.

INTERNATIONAL BACCALAUREATE

JUR HRONEC GYMNASIUM BRATISLAVA
September 2009 – June 2011

- GPA: 7.00 (7 = excellent, 1 = fail).

VOLUNTEERING

MATHS COMPETITIONS AND CAMPS

TROJSTEN: STUDENT NON-PROFIT
September 2011 – June 2014 | Bratislava, SK

- Participated in the design, preparation and realisation of 3 camps, one week each, for 36 high-school maths talents.
- Prepared and delivered over 40×1.5 h of lectures and workshops in popular as well as olympiad-type Maths.

INTERNSHIPS

RESEARCH INTERN IN MACHINE LEARNING

MICROSOFT RESEARCH

May 2017 – August 2017 | Cambridge, UK

- Work with Sebastian Nowozin and Ryota Tomioka: Information placement in variational autoencoders.

DATA SCIENTIST / ENGINEER

VRVIS: BIOMEDICAL COMPUTING

September 2015 – July 2016 | Vienna, AT

- Developed components of a CNN-based model for automatic assessment of osteoarthritis severity from knee X-rays.
- Designed a protocol for more reliable ground truth collection.
- Schooled an industry partner in applied data analysis (4 × 3 h).

DATA ANALYST

ERSTE: CREDIT RISK METHODS & MODELS DEVELOPMENT

October 2014 – January 2016 | Vienna, AT

- Developed and maintained probabilistic models for assessing the credit risk of corporates.

RESEARCH INTERN IN BIOSTATISTICS

SLOVAK ACADEMY OF SCIENCES

August 2013 – July 2014 | Bratislava, SK

- Analysed EEG recordings of healthy and post-stroke subjects using tools from functional data analysis.
- Designed and implemented a resampling-based procedure for testing for differences between the populations.

COURSEWORK

CLASSES

- Probabilistic graphical models (W2016).
- Deep learning for visual computing (W2016).
- Topics in Bayesian econometrics (S2016).

TEXTS

- Sutton & Barto: Reinforcement learning.
- Schapire & Freund: Boosting.
- Friedman, Tibshirani & Hastie: The elements of statistical learning.

PAPERS

DIFFERENCES IN SLEEP PATTERNS AMONG HEALTHY SLEEPERS AND PATIENTS AFTER STROKE

Bui Thi Mai P. and Rosipal R.

Clinician and Technology Journal, 44(4):15-20, 2014.