

# FILIP SVOBODA

## Education

---

### University of Oxford

Oxford, the United Kingdom  
Sep 2018 – present

### PhD Autonomous Intelligent Machines and Systems

*Cyber Physical Systems group*: I am working on the topic of Deep Learning Efficiency in the context of Embedded Systems. I specialise in Compression and Neural Architecture Search for mobile and MCU platforms.

### University College London

London, the United Kingdom  
Sep 2017 – Sep 2018

### MSc Computational Statistics and Machine Learning

*Distinction, UCL Interaction Centre group*: I developed novel Statistical measures for deep model compression. These are statistically sound, interpretable and better performing than commonly used magnitude criteria.

### University of Oxford

Oxford, the United Kingdom  
Oct 2015 – Jul 2017

### MPhil Economics

*Econometrics group*: I developed a method for generating user objective-centric model selection criteria. It was deployed for building financial forecasting models in the portfolio choice pipeline at the Ox-Man Institute.

### University of Amsterdam

Amsterdam, the Netherlands  
Sep 2012 – Aug 2015

### BSc (Hons) Economics and Business

*Cum Laude (top 2%), Finance group*: I compiled and studied the first dataset on Capital Shocks and Renegotiation in the US Syndicated Loan Market. *Erasmus exchange*: The University of Edinburgh (Jan – May 2015)

## Experience

---

### University of Oxford

Oxford, the United Kingdom  
Oct 2018 - present

### Teaching Assistant in Deep Learning (Software Engineering Program)

I co-developed the DNN of the SEP MSc program at the University of Oxford with **Dr Nicholas Lane**. I conduct the demo-sessions, the catch-up seminars, and the exam. <https://www.cs.ox.ac.uk/softeng/subjects/DNN.html>

### Oxford Man Institute of Quantitative Finance

Oxford, the United Kingdom  
Oct 2015 – Aug 2017

### Research Assistant in Econometrics

I worked on the development of dimensionality reduction and model selection methods under the supervision of **Dr James Wolter**. This formed the basis of my MPhil thesis. I, also, worked closely with C++ developers who helped efficiently re-implement my Python prototype for deployment.

### University of Amsterdam

Amsterdam, the Netherlands  
Jan 2015 – May 2015

### Teaching Assistant in Microeconomics

I worked as **prof. Maarten Schinkel**'s TA in advanced Microeconomics module. Each week I taught up to 200 students per practical session, 30 students per tutorial class, and I prepared 3-4 pages of new topical student training material.

### University of Amsterdam

Amsterdam, the Netherlands  
Oct 2014 – Sep 2015

### Research Assistant in Corporate Finance

Worked for **Dr Tomislav Ladika** on Syndicated Loans Research Project. I searched for the appropriate data sources, merged them into a single easy to access database, and I thoroughly documented the process. This formed the basis of my thesis and two subsequent publications by the research team after my departure.

### Huawei Technologies

Shenzhen, China  
July 2014

### Telecom Seeds for the Future Intern

I had a first-hand work experience at Huawei's Shenzhen headquarters focused on its ICT Technologies & Solutions for the global market.

### Tatra Banka

Bratislava, Slovakia  
Jul 2013 – Aug 2013

### Private Bank Intern

I shadowed the sales of ETFs, European Equities and FX Derivatives. I took initiative and independently acquired a new client. I, then, participated in the product design of investment certificates on stocks, and currency pairs.

## Other information

---

### Journal reviews:

Transactions on Pattern Analysis and Machine Intelligence (2020)

### Programming Languages:

Advanced: **Python** (TensorFlow & 2.0) Elementary: C/C++, SQL, Haskell

### Human Languages:

Native/Bilingual: English, Slovak, Czech; Limited working proficiency: Russian