

RECENT EMPLOYMENT HISTORY

Associate Data Scientist (Contractor) at Pearson Plc

06/2014 – 09/2014

Focusing on primary school online platform – Active Learn Primary—where I independently analyzed 60M+ rows to find out in what ways can the current platform be improved, including new ideas for data-gathering. The project involved looking at both internal and external measures of success to achieve more robust findings for our churn modelling problem. We used Python toolset (IPython, scikit-learn, NumPy etc.) run on an external server in a Unix VM; I was responsible for maintaining the VM via Unix terminal. Reporting directly to director of Data Science in Strand, London.

IT Demonstrator at Oxford University Computing Services

03/2014 – 03/2015

Helping full-time teachers teach classes such as: beginner and intermediate R, Linux, Excel courses as well as LaTeX courses; helping students (staff and students of University of Oxford) learn and solve problems in these courses.

Data Analytics and Visualization Intern at Pearson Technology (part of Pearson, Plc)

07/2013 – 09/2013

Most of the work revolved around a data-science efficacy-review of Online courses project for the CEO and Sir Michael Barber: using R run on a server to do clean, model and validate predictive models to answer questions such as “What user behavior correlates with good learner outcomes?” etc. Including cooperation with teams in Boston and Poland. Different projects included using D3 and its abstractions to plot queries using Elasticsearch linked to a Hadoop database and including the work in a Node.js based UI

Contractor at TPA Horwath (Consulting Agency, Prague)

08/2012 – 09/2012

Independently analyzing new EU legislation and the common agricultural policy; independently making studies about profitability of various sectors (pharmaceuticals, electric motors); translating confidential documents; doing market size research; doing acquisition proposals and structuring

Head Coach at Debate Club Nad Aleji (Government-run school, Prague)

09/2011 – 06/2012

Preparing weekly sessions, inviting experts for talks, teaching beginners debate from its start up to advanced techniques for the more experienced debater, preparing debate materials, salaried worker, responsible for, taking groups of 15+ kids to national tournaments

Summer Intern at Crest Communications (PR Company, Prague)

07/2008 – 08/2008; 07/2009 - 08/2009

Translator, negotiated events with prominent Czech newspapers, prepared supplementary materials, revised and edited texts written in English, wrote texts for official use, media monitoring

EDUCATION

University of Oxford – Philosophy, Politics, and Economics

2012 – 2015

Scholarships: Zdenek Bakala Foundation, Kellner Family Foundation, Web Summit Dublin Scholar, St. Peter's College Collection Prize

Final papers: Econometrics, Mathematical Methods, Quantitative Economics, Microeconomics, Macroeconomics, Sociology, Comparative Government, Quantitative Methods in Politics and Sociology

Societies & involvement: Oxford Student Union's Student Advisory Group for IT, Oxford University Czech and Slovak Society (committee member and secretary), Oxford Microfinance Initiative, Student Economics Undergraduate Joint Consultative Committee (Member, Secretary, VP), Ambassador for Access, CapitOx: IT Officer for 2 years, Banking Committee and Treasurer, Undergraduate Divisional Representative, St. Peter's College Boat Club

MOOCs (click names for certificates): IIT's Web Intelligence and Big Data (with distinction); EPFL's Initiation à la programmation (en Java); Udacity's Algorithms, Data Wrangling with MongoDB

MIT's Science of Uncertainty, Computational Thinking and Data Science;

University of Michigan's Introduction to Finance, Social Network Analysis (Signature Track, with Distinction);

Johns Hopkins University's Computing for Data Analysis, Data Analysis, Getting and Cleaning Data;

Stanford's Machine Learning, Economic and Social Networks, Statistical Learning

Gymnázium Nad Alejí, Czech Republic – high-school education with maturita

2004 – 2010; 2011 – 2012

Additional subjects: Johns Hopkins University: Linear Algebra Class [A-]

The McCallie School, TN, US – **ASSIST scholarship** – Advanced Placement (~A2s)

2010 – 2011

Extremely well qualified for [5/5]: Calculus BC, US History, Microeconomics, Macroeconomics

Well qualified for [4/5]: Comparative Government and Politics, English Literature

SKILLS AND COMPETENCES

Proficient: R, MongoDB, Linux (Ubuntu), Python (including sci-kit learn, Pandas, NumPy, Orange, etc.);

Prior experience: JavaScript (specifically, MEAN stack), D3.js, HTML, MATLAB, SQL; **Beginner:** Java

Typesetting: LaTeX, TeXworks

Language Skills [CEFR scale]: English [C2], Czech [C2], French [B2], Mandarin Chinese [A1]

UNSALARIED POSITIONS:

Intern at Aspen Institute Prague (NGO)

05/2012 – 07/2012

Drafting analysis documents (public and internal), contacting suppliers and coordinating offers; dealing with high-positioned guests (incl. leaders of business, foreign ambassadors, leading artists); making official graphics and design; proofreading official texts; translating; office managerial work etc.

Volunteer for Forum 2000 (NGO)

09/2011 – 03/2012

Writing up summaries of speeches, editing texts for final year repots, organizing small groups of temporary reporters, making themed-reports, proofreading etc.

SELECTED ACHIEVEMENTS:

Conference Organization/Participation

Co-organized: Aspen Institute Prague Launch Conference 2012 (worked there prior to AIP's official existence), attendees included over 20 former ministers of foreign affairs, speakers included Madeleine Albright, Sir Malcolm Rifkind, Lord Peter Mandelson. The core organization team only included 4 other people.

Co-organized: State of the Markets 2013: Speakers included John Nash (Nobel Prize 1994), Dr. Johannes Teyssen (CEO E.ON), Andrea Enria (Chairman, European Banking Authority) etc. Launch event with Eric Maskin (Nobel Prize 2010). Co-organized as CapitOx with Oxford Union in a team of 12.

Panel speaker: European Economic Congress: EU 2030 – Vision for Europe

Research Projects

IDEA [Czech think tank] study about the efficiency of government: helped the NGO and a university professor perform data cleaning and organization using Excel and R

Participated in a selective and paid US intelligence community sponsored research project run by UC Berkley professors Good Judgment Project aimed at improving social science predictions and forecasting

Hackathons

hackZurich 2014: budget tracking app using JavaScript (MEAN stack), D3.js, others did design and sendGrid integration

oxHack 2014: Bloomberg algorithmic challenge using Python

Entrepreneurship First Hackathon 2015: Data science project (pandas, numPy, scikit-learn) and visualizations (D3.js)

English debate

Global Debate and Public Policy Challenge 2012/2013, 2013/2014: Top 50

International Public Policy Forum: World Champion 2012; team captain

International Public Policy Forum: Top 16 in 2011 (out of 330+); team captain

Represented Czech Republic in World Debating Championships in Qatar 2010 (Best speaker from the Czech delegation) and KPDC World Championships 2010 (Semifinalist and 2nd best speaker; Best EFL speaker)

Member of the National Debating Team thrice; twice team captain thereof

Winner of World Online Debating Championship; World KPDC: 5th best speaker; WSDC 15th best EFL speaker

Heart of Europe 2010 (quarter-finalist; second best EFL); Heart of Europe 2011 (best EFL speaker, 3rd best speaker overall, winner (historically first Czech) of the international tournament); ESDC Stuttgart Quarter-finalist and 9th best speaker; Czech Debate League Winner 2010; KPDC World Championships (Quarterfinalist) – 2009;

Experience in judging; coaching high school teams nationally

Community Service/Involvement

Habitat Chattanooga, TN

Was the main organizer of Studentke volby (Student Election) at Gymnazium Nad Aleji

Main student organizer of Economics Career Fair at Oxford

Filmmaking competitions, media & business

Founder and editor of Aleo (school magazine); declared to be second best in the country; also created their websites

Got to TOP 10 for National Literary Award for Young Writers

[National] Participated in EU-organized competition "Tvorim, Inovuji, Kazdy den" – 1st place [2009]

McCallie Investment society, member of, helped manage real capital [\$100,000], proposed stocks

[National] Youth Business Conference 2010: Youth Business Idea: 2nd place; Youth Business Project: 2nd place

REFERENCES

Available upon request

For a more complete employment history see my LinkedIn profile: [linkedin.com/in/jakublangr/](https://www.linkedin.com/in/jakublangr/)