

Łukasz Kidziński

Post-doc researcher at the École polytechnique fédérale de Lausanne

Professional Experience

- present **EPFL**, *Postdoctoral researcher*, Lausanne, Switzerland.
- September 2014 Data analysis projects in CHILI Lab (Computer Human Interaction in Learning and Instruction). Management of data science projects, supervision of PhD students, Research on MOOCs (massive online open courses).
- September 2014 **DREAM LINEUP LTD**, *Data scientist and developer*, London, United Kingdom.
- June 2012 Part-time development of a statistics-based football manager game dreamlineup.com.
- July 2014 **UC Berkeley**, *Research scholar*, Berkeley, United States.
- May 2014 Prospective project concerning development of an R package based on my recent findings in Functional Data Analysis.
- September 2013 **Colorado State University**, *Research scholar*, Fort Collins, United States.
- July 2013 Research project, regression in functional time series context. Applications to financial and geospatial data.
- September 2011 **ETH Zürich**, *Internship*, Zürich, Switzerland.
- July 2011 Development of online tools for comparison of machine learning methods within mloss.org and mldata.org.
- June 2011 **LEMONET**, *Founder & web developer*, Warsaw, Poland.
- October 2007 Co-founder of nogazpolaka.pl - an online market with exclusive materials for polish Matura exam in years 2005-2014. Founder of neib.org - venues reviews and recommendations. Part-time development of web applications ksiazkowo.pl, livretto.pl and others.

Education

- 2011 – 2014 **PhD in statistics**, *Université libre de Bruxelles*.
Thesis: Inference for stationary functional time series: dimension reduction and regression
Advisor: Siegfried Hörmann.
- 2005 – 2011 **M.S. in Mathematics**, *University of Warsaw*.
Thesis: Statistical foundations of recommender systems,
Advisor: Hung Son Nguyen.
- 2010 – 2011 **ERASMUS exchange program**, *Vrije Universiteit Brussel*.
Courses in computer science and statistics.
- 2006 – 2010 **M.S. in Computer Science**, *University of Warsaw*.
Thesis: Application of the language Objective-C in mobile development, case study,
Advisor: Janusz Jabłonowski.

Honors and awards

- 2014 Research grant for a short visit in UC Berkeley
- 2011 PhD scholarship within ARC grant, Robust Static and Dynamic Dependence Models

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- 2011 PASCAL Group fellowship for the internship in ETH Zürich
- 2007 Scholarship from the University of Warsaw for top students
- 2005 Participant in the 2nd round in Polish Olympiad in Mathematics
- 2002 – 2005 Participant in the 2nd round in Polish Olympiad in Informatics (4 times)
- 2002 Laureate of a computer science olympiad for gymnasiums LOGIA
- 1998 Finalist of junior polish chess championships

Research interests

Time series analysis, functional data analysis, machine learning, spectral analysis, engineering applications.

Journal publications

- 2014 Hörmann, S. and Kidziński, Ł., **A note on estimation in Hilbertian linear models.** (accepted to the Scandinavian Journal of Statistics, arXiv:1208.2895)
- Hörmann, S. and Kidziński, Ł. and Halin M., **Dynamic Functional Principal Component.** (accepted to the Journals of the Royal Statistical Society Series B, arXiv:1210.7192)
- Hörmann, S. and Kidziński, Ł. and Kokoszka M., **Estimation in functional lagged regression.** (accepted to the Journal of Time Series, available at colostate.edu)

Conference talks

- 2013 **Frequency domain methods for functional time series.**
 - Invited talk, Fort Collins (Colorado, USA), August 2013
- Dynamic Functional Principal Components.**
 - German-Polish Joint Conference on Probability and Mathematical Statistics, Toruń (Poland), June 2013
 - PhD Day. Bruxelles (Belgium), May 2013
- L'analyse de données fonctionnelles.**
 - Journée de la science, 10 minutes pour comprendre, Bruxelles (Belgium), April 2013
- 2012 **Estimation in Hilbertian linear models.**
 - Belgian Statistics Society Meeting, Liege (Belgium), October 2012
 - PhD Day. Louvain (Belgium), September 2012
 - Workshop on high dimensional and dependent functional data, Bristol (United Kingdom), September 2012

Computer skills

- Math software R, Matlab, Mathematica
- Programming C, C++, Java, Python, SQL
- Frameworks Spring, Django, OpenGL, OGRE
- Electronics Microcontroller programming

Languages

- Polish **native speaker**
- English **full professional competence**
- French **full professional competence** *C1 equivalent certificate*
- German **notions** *level A2*