

WORK EXPERIENCE

- **SENIOR DATA SCIENTIST**
Raiffeisenlandesbank Niederösterreich-Wien AG
Vienna, AT | since 2018
 - set up an omni-channel data infrastructure on an Exasol cluster
 - automatised reporting system for the banks online product portfolio/ backoffice processes
 - recommender systems (R/caret) for stationary/online CRM
 - data based product improvement/development and conversion optimization.
- **RESEARCH / POSTDOCTORAL FELLOW**
Université Panthéon-Sorbonne Paris 1
Paris, FR | 2014 - 2017
 - SIMPOL project [ECR]: www.simpolproject.eu
 - Topics: climate finance, emission trading and networks of political decision making
 - Duties: data collection, statistical / econometrical (network) analysis, preparation of articles for the submission to scientific journals, presentations at international conferences
- **VISITING SCHOLAR**
Jozef Stefan Institute
Ljubljana, SI | 2016
 - in the context of the SIMPOL project
 - Topics: analyzing voting and Twitter usage data of members of the European Parliament using Exponential Random Graph Models.
- **ECONOMIST/STATISTICIAN**
EUWIFO AG
Zurich, CH | 2011 - 2016
 - development of analytical models for survey based business sentiment data
 - automatized reporting system
 - process results for client communication in English/German

EDUCATION

- **PHD ECONOMICS**
Paris School of Economics /
Université Pathéon-Sorbonne Paris 1
Paris, FR | 2011 - 2015
 - Thesis: "Social Interactions, Expectation Formation and Markets" (proposée pour un prix de thèse)
 - Advisor: Prof. François Gardes
 - Topics: micro-econometrics, expectation theory, social interactions, machine learning and pattern recognition algorithms, social networks, climate finance
- **MASTER ECONOMICS**
University of Vienna
Vienna, AT | 2004 - 2011
 - Specialisation: Macroeconomics, Fiscal Policy
 - Thesis: "Optimal Fiscal Policy and Commitment" (grade 1/5 [A])
 - Supervisor: Prof. Gerhard Sorger
- **MASTER POLITICAL SCIENCE**
University of Vienna
Vienna, AT | 2003 - 2008
 - Specialisation: Political Economics, Fiscal Policy and Comparative Political Science
 - Thesis: "Interactions of Democracy and Fiscal Policy" (grade 1/5 [A])
 - Supervisor: Prof. Gerhard Steger
- **MATURA**
Akademisches Gymnasium Salzburg
Salzburg, AT | 1994 - 2002
 - Austrian university entrance qualification (mit gutem Erfolg [pass with merit])

SELECTED PUBLICATIONS

Andreas Karpf, Antoine Mandel.
PRICE AND NETWORK DYNAMICS IN THE EUROPEAN CARBON MARKET,
2018. Journal of Economic Behavior & Organization
Vol. 153, p. 103 – 122.

Andreas Karpf, Antoine Mandel.
THE CHANGING VALUE OF THE 'GREEN' LABEL ON THE MUNICIPAL BOND MARKET,
2018. Nature Climate Change 8, p. 161 - 165.

Darko Cerepnalkoski, Andreas Karpf, Miha Grčar, Igor Mozetič.
COHESION AND COALITION FORMATION IN THE EUROPEAN PARLIAMENT. ROLL-CALL VOTES AND TWITTER ACTIVITIES,
2016. PLoS ONE 11(11).

Andreas Karpf, Antoine Mandel, Stefano Battiston.
A NETWORK-BASED ANALYSIS OF THE EUROPEAN EMISSION MARKET,
2015. Proceedings of the ECCS 2014, European Conference on Complex Systems.

AWARDS & SCHOLARSHIPS

- Impact Award of the LIFE Climate Foundation Liechtenstein, 2018.
- Qualification à la Fonction de Maître de Conférences (National qualification to become Assistant Professor in Economics in the French higher education system), 2017
- INET travel award to attend the annual INET conference and the YSI workshop in Hong Kong, 2013
- Eurasia-Pacific Uninet scholarship to participate in the Eurasia-Pacific Uninet Summerschool, 2005
- Academic Honors Stipend ("Leistungsstipendium") awarded by the University of Vienna, 2005

TECHNICAL TOOLKIT

Linux, Python [i.a. Keras, NumPy, OpenCV, Pandas, Pillow, PyTorch, Py2neo, QuantLib, Scrapy, TensorFlow (CNN, RNN), Tweepy, PyTesseract], R [i.a. caret, data.table, gbm, ggplot2, MCMCglmm, OpenXLXS, Rcpp], Latex, Julia, SQL [PostgreSQL, Server, EXASOL] , Apache Superset, Webfocus, Jira, neo4j

LANGUAGE SKILLS

- GERMAN - native
- ENGLISH - fluent
- FRENCH - advanced

ACADEMIC PROGRAMS

- **ERASMUS**
Université Panthéon-Sorbonne Paris 1
Paris, FR | 2009
 - Economics (M1-M2/UFR2)
 - Semester abroad under the European Union Erasmus student mobility program.
- **AUSTRIAN-CHINESE SUMMER SCHOOL**
Peking University / Fudan University
Beijing/Shanghai, CN | 2005
 - Economics/Political Science
 - Summer School under the administration of the Eurasia-Pacific Uninet

TEACHING

- **Introductory graduate course in Econometrics**
Sciences Po
Paris, FR | Fall 2013
 - for master students of the Paris School of International Affairs (Institut d'études politiques de Paris - Sciences Po)
- **Graduate course in Macroeconomics**
Université Panthéon-Sorbonne / Université Paris Descartes
Paris, FR | Summer 2013
 - graduate course in Macroeconomics for students of the Master Psychology & Economics
- **Graduate course in Calculus**
Université Panthéon-Sorbonne / Université Paris Descartes
Paris, FR | Fall 2012 and Fall 2013
 - graduate course in Calculus for students of the Master Psychology & Economics

CONFERENCES, WORKSHOPS & SEMINARS

Talks

- Raiffeisen International Data Science Meetup
Vienna, AT, 2020
- CES Network Seminar
Paris, FR, 2017
- CES Network Seminar
Paris, FR, Jan 2016
- Conference on Complex Systems
Amsterdam, NL, Sep 2016
- CES Network Seminar
Paris, FR, Jan 2015
- EURO Working Group for Commodities and Financial Modelling
Milan, IT, 2014
- European Conference on Complex Systems
Lucca, IT, 2014
- Journées de Microéconomie Appliquée (JMA)
Clermont-Ferrand, FR, 2014
- Congress of the European Economic Association
Gothenburg, SE, 2013
- Journées de Microéconomie Appliquée (JMA)
Nice, FR, 2013
- Congrès annuel de la Société canadienne de science économique
Quebec Ville, CA, 2013
- INET annual plenary conference and Young Scholars Workshop
Hong Kong, CN, 2013

Attendance

- Green-Win workshop
Royaumont, FR, Oct 2016
- Statistical Physics of Financial and Economic Networks
- Satellite Meeting StatPhys26
Paris, FR, 2016
- GSS 2015 Conference on Global Systems Science
Genoa, IT, 2015
- Climate Finance Workshop
Paris, FR, 2014
- Workshop: Towards a research agenda for Policy-Making Challenges after 2008
Paris, FR, 2014