JOHAN VAN DER MOLEN MORIS

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https://jvandermolen.com

EDUCATION

2015-2020 PhD Statistics - University of Edinburgh

PhD Statistics

School of Mathematics. School of Mathematics. College of Science & Engineering Thesis: *Bayesian Semiparametric estimation of densities with unknown support.* Supervisor: Dr. Natalia Воснкіма

2014-2015 MSc Statistics & Operational Research – U. of Edinburgh

MSc Statistics and Operational Research First Class (Distinction) · School of Mathematics. College of Science & Engineering Thesis: Estimation of the lower support point of an unknown density.

Supervisor: Dr. Natalia Воснкіма

2006-2011 Mathematical Engineering degree – University of Chile

Mathematical Engineering

First Class Honours · Faculty of Physical and Mathematical Sciences
Thesis: Educational Data Mining: Prediction models for elementary schools students'
performance.
Supervisors: Dr. Roberto Araya, Dr. Raúl Gormaz & Dr. Jaime San Martín

Supervisors. Bit noberto rikking Bit rudi Gokking & Bit Junite Silv Milking

2006-2010 BSc Engineering Sciences in Mathematics – U. of Chile

BSc Engineering Sciences in Mathematics Second Class Honours · Faculty of Physical and Mathematical Sciences.

EMPLOYMENT

2020 Teaching Assistant – University of Chile

Teaching Assistant, U. of Chile (Sep-Dec) Teaching Assistant of the course "Experimentation and Modelling approach to Mathematics Cognition and Education". Working remotely, I have participated in the design of the course and delivered online lectures covering statistical topics such as Random Effects and Multilevel modelling, and an introduction to machine learning methods. I also covered applications using programming languages R and Python.

2016-2019 Tutor – University of Edinburgh

Tutor, U. of Edinburgh Tutor of Nonparametric Regression, Multivariate Data Analysis, Linear Statistical Modelling, Statistics 2 (including summer course), Statistical Methodology, Credit Scoring, Methodology Modelling and Consulting Skills, Engineering Mathematics.

2013-2014 Assistant Researcher – Center for Advanced Research in Education, University of Chile

Assistant Researcher, U. of Chile Development of automatic speech recognition models. Application of machine learning algorithms to identify content and teaching practices in classes. In collaboration with Prof. Bhiksha Raj and Prof. Rita Singh from Carnegie Mellon University. Project FONDEF D1111009. www.ciae.cl

Contact: Roberto Araya · +56 2 978 2590 · roberto.araya@ciae.uchile.cl

	2011 Internship – Center for Advanced Research in Education, University of Chile
Internship, U. of Chile	(Jan) Study of prediction models of elementary school students' performance in an online exercising system. Contact: Roberto Araya · +56 2 978 2590 · roberto.araya@ciae.uchile.cl
	2009 Teaching Assistant – Pontifical Catholic University of Chile
T. A. Catholic Univ.	(Mar-Jul) Teaching Assistant of Algebra (Year 1). Faculty of Mathematics.
	2008-2009 Teaching Assistant – University of Chile
T. A. U. of Chile	Teaching Assistant of Linear Algebra (Year 1). Faculty of Physical and Mathematical Sciences.
РΙ	JBLICATIONS
	Sep 2020 Bayesian Semiparametric estimation of densities with unknown support
PhD Thesis	University of Edinburgh. Author: Johan van der Molen. Supervisor Natalia Воснкіма
	Oct 2015 Mining Social Behavior in the Classroom
7th ICCCI 2015	Proceedings of 7th International Conference ICCCI 2015. Lecture Notes in Computer Science. Authors: Roberto Araya, Ragnar Behncke, Amitai Linker, Johan van der Molen
	Sep 2013 Causal dependence among contents emerges from the collective online learning of students
5th ICCCI 2013	Proceedings of 5th International Conference ICCCI 2013. Lecture Notes in Computer Science. Authors: Roberto Araya, Johan van der Molen
	Jul 2013 Impact of a blended ICT adoption model on Chilean vulnerable schools correlates with amount of on online practice
LT4D @AIED 2013	Proceedings of LT4D Workshop @AIED 2013. Authors: Roberto Araya, Johan van der Molen
н	ONOURS & AWARDS
	2016-2019 Travel Grants for Poster Presentations
Travel Grants	Several scholarships covering registration fees and travel or accommodation for poster presentations at BNP12 (Oxford, 2019), ISBA(Edinburgh, 2018), BNP11(Paris, 2017), CRiSM Master Class (Warwick, 2016).
	2015-2019 Becas-Chile Scholarship for PhD Degrees
Becas-Chile Scholarship	Scholarship by CONICYT from Chilean Ministry of Education for PhD programmes. It covers tuition fees ($\approx £14,500$ per year) and living expenses ($\approx £1,400$ per month).
	2014-2015 Becas-Chile Scholarship for Master's Degrees
Becas-Chile Scholarship	Scholarship by CONICYT from Chilean Ministry of Education for Master's studies. It covers tuition fees ($\approx £17,500$) and living expenses ($\approx £1,400$ per month).

2006-2008 Academic Excellence

Academic Honour award for academic excellence during undergraduate studies at University of

Excellence Chile.

2006 University of Chile Scholarship

U. of Chile Academic Excellence Scholarship by U. of Chile that covers tuition fees for

Scholarship undergraduate studies.

OTHER INFORMATION

Computer Skills R, Python, LATEX, Matlab, Arena, Xpress.

Transferable Skills Founder and Organiser of Statistics PhD Discussion Group at U. of Edinburgh ·

Leader of Student Helpers at ISBA 2018.

Languages Spanish (Mother Tongue), English (7.5 IELTS test), German (Level A-2.1, Goethe

Institut), Japanese (basic level, Chilean-Japanese Institute of Culture).

Interests Bayesian Nonparametrics · Nonregular Models · Machine Learning