

Jesse Hendrik Krijthe



about

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interests

Statistical Learning:
Semi-Supervised
Missing Data
Model Selection
Meta-Learning
Heterogeneous data

motivation

Improving the understanding and ease of use of statistical learning methods to aid in answering complex questions through the use of data.

education

- | | | |
|-------------|---|--|
| 2012-Now | Ph.D. candidate in Machine Learning
Topic: <i>Robust Semi-Supervised Learning</i>
Joint appointment in the Department of Molecular Epidemiology of the Leiden University Medical Center and the Pattern Recognition & Bioinformatics group of Delft University of Technology. Part of the COMMIT research programme.
Advisors: Prof. Marco Loog & Prof. J.N. Kok | Leiden University & Delft University of Technology |
| 2010-2012 | M.Sc. Computer Science (cum laude)
GPA 9.1/10.0
With a focus on Pattern Recognition & Machine Learning courses, including a multimedia information retrieval course at Leiden University.
Advisors: Prof. Marco Loog & Dr. Tin Kam Ho (see below) | Delft University of Technology |
| Summer 2011 | Well-being Innovation Summer School
Intensive program on developing entrepreneurship skills with applications to ICT solutions for problems in health and well-being. In Vierumäki, Finland and Eindhoven, The Netherlands. Received highest score on final examination. | EIT ICT Labs, Helsinki |
| 2007-2010 | B.Sc. in Econometrics
GPA 9.0/10.0
Thesis: 'Time-varying Predictability of sports games' supervised by the dean of the faculty, Prof.Dr.Ph.H.B.F. Franses
Awards: Cum Laude Bachelor I Award (GPA 8.9/10.0) | Erasmus University Rotterdam |
| 2008-2009 | Bachelor's Honours Class
Course Modules: Risk Management, Immigration Policy, Mergers & Acquisitions
Research Essays: "New revenue models in the software industry: How to make money by giving your product away" & "Current evidence for a "long tail" demand curve" | Erasmus University Rotterdam |
| Fall 2009 | Semester Abroad
Courses: Artificial Intelligence, Natural Resource & Environmental Economics, Scandinavian Area Studies | University of Bergen, Norway |
| 2005-2007 | Junior College Utrecht
Program that allows high school students to follow the science part of the high school curriculum at the university by spending 40% of their time at the university each week. The courses offer both more depth and time is allotted for extra course modules. Modules: Computer modeling, Pharmacology, Astronomy & Nano-science | University Utrecht |
| 2001-2007 | High School
Bilingual (English-Dutch) education with focus and the sciences and electives in Latin, philosophy and advanced English. Participated in exchange programs with Danish and Czech students. Finalist in a national English speech competition. | Revis Lyceum, Doorn |

academic

- Spring 2012 Research Internship Alcatel-Lucent Bell Labs
Looking into understanding classifier behaviour and meta-learning through 'Data Complexity' measures, which are descriptions of the intrinsic difficulties of pattern recognition problems. In particular we studied the effect of meta-learning using cross-validation measures as meta-features on classifier selection. The research was carried out at Bell Labs in Murray Hill, New Jersey over a 6 month period under the supervision of Dr. Tin Kam Ho.
Grants: Hendrik Muller Fonds
Supervisors: Dr. Tin Kam Ho (Bell Labs) & Prof. Marco Loog (TU Delft)
- 2009-2010 Research Assistant Prof. Robert Dur Erasmus University Rotterdam
Statistical analysis of a large survey dataset on differences in the effects on well-being of incentive schemes between men and women. Also assisted in the practical implementation of an empirical study on the effect of monetary incentives on sales performance and motivation in fitness clubs.
- 2008-2010 Teaching Assistant Erasmus University Rotterdam
Statistical Methods & Techniques (February 2010 - May 2010)
Introduction to Programming (September 2008 - November 2008)

publications

international peer-reviewed conferences/proceedings

- Implicitly Constrained Semi-supervised Least Squares Classification**
Jesse H. Krijthe, Marco Loog
The Fourteenth International Symposium on Intelligent Data Analysis, 2015, Saint-Etienne, France
- Implicitly Constrained Semi-Supervised Linear Discriminant Analysis**
Jesse H. Krijthe, Marco Loog
Proceedings of the 22st International Conference on Pattern Recognition, 2014, Stockholm, Sweden
- Improving cross-validation based classifier selection using meta-learning**
Jesse H. Krijthe, Tin Kam Ho, Marco Loog
Proceedings of the 21st International Conference on Pattern Recognition, 2012, Tsukuba, Japan

experience

- Fall 2011 De Jeugdzaak, Amsterdam Consulting
Data gathering and application development to build a tool to help local governments gain insights into medical needs of the youth in their municipality.
- 2005-2010 Founder & Software developer Calox Software
Co-founded company providing web-based tools for Dutch secondary schools to help reduce administrative burden and help students manage their time.