



LEO C.E. HUBERTS PhD

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PROFESSIONAL EXPERIENCE

ASSISTANT PROFESSOR & CONSULTANT

BUSINESS ANALYTICS, UNIVERSITY OF AMSTERDAM,

Research | My research focuses on applied statistics and machine learning with an emphasis on predictive and statistical process monitoring. More specifically, the use of large (un)structured data sets ('big data') in monitoring complex processes. The Business Analytics section focuses on analytics for a better world, advancing the use of data science in business and society.

Teaching | Lecturer at the University of Amsterdam for the following courses:

- 2021 – present: "Thesis Proposal workshop Digital Business"
- 2017 – present: "Operational Excellence"
- 2017 – present: "Business Operations and Processes"
- 2017 – present: "Management Research Methods 1"
- 2017 – 2018: "Mathematics for Business Studies"

Consulting

- Independent scientific advisor in cartel damage cases
- Implementation of improvement programs for numerous Dutch and international organizations (for example ING, ABN AMRO, AkzoNobel, Philips, PostNL, UMCU):
 - Executive training (Lean Six Sigma Green & Black Belt)
 - Project supervision and evaluation of improvement projects ranging from €50k to €2m increase in annual income (acting Master Black Belt)
 - Developing Lean Six Sigma training curricula (with an emphasis on data science)

MAR 2017
– MAR 2021

40+ hrs/week

PHD CANDIDATE, TEACHER & CONSULTANT

OPERATIONS MANAGEMENT, UNIVERSITY OF AMSTERDAM,

PhD candidate and teacher in the Operations Management department at the University of Amsterdam (UvA). Consultant with the Institute for Business and Industrial Statistics (IBIS UvA), which specializes in strategies for operational excellence based on proven analysis methods, such as Lean, Six Sigma, and Process Monitoring.

NOV 2020
– PRESENT
4 hrs/week

FOUNDER & DIRECTOR, SAIGHT.IO

Saight develops AI technologies for (predictive) monitoring of objects in public spaces.

JAN 2016
– JAN 2018

40+ hrs/week

FOUNDER & DIRECTOR, DELPH.IO

Delph focused on bringing data analytics and predictive modeling to companies and institutions of any size by developing intelligent data-driven software solutions. We developed solutions for customers in construction, politics, travel, healthcare, shipping, recruitment and government.

MAY 2015
– AUG 2016

10 hrs/week

GENERAL MANAGER, THE BIG DATA ALLIANCE

The Big Data Alliance is a joint initiative in the field of Big Data between industry, universities and research institutions to promote data science. As a general manager, I contributed to launching the platform and was responsible for student involvement, the website and the back office.

MAR 2011
– JUL 2015

16 hrs/week

FINANCIAL DEPARTMENT, STICHTING CPNB

Jointly responsible for the financial administration of the Stichting Collectieve Propaganda voor het Nederlandse Boek (CPNB). Furthermore, I was involved in organizational activities for large CPNB events, such as the Boekenweek, Boekenbal, and Manuscripta.

EDUCATION & TRAINING

MAR 2017
– APR 2021

PHD APPLIED STATISTICS & MACHINE LEARNING, UNIVERSITY OF AMSTERDAM

Thesis: "Statistical and Predictive Process Monitoring; Monitoring Complex Processes in the Age of Big Data". Date of Defense: April 22nd, 2021. Supervisors: Prof. dr. R.J.M.M. Does & dr. M. Schoonhoven.

SEP 2015
– JUL 2016

MSc ECONOMETRICS, UNIVERSITY OF AMSTERDAM

Thesis: "Predicting high school student performance; A Hierarchical Early Warning Indicator System", supervisor dr. M.J.G. Bun.

JAN 2015
– JUL 2015

EXCHANGE SEMESTER, NATIONAL UNIVERSITY OF SINGAPORE

Semester on Interdisciplinary Econometrics & Computer Science.

SEP 2012
– JUL 2015 **BSc ECONOMETRICS & OPERATIONAL RESEARCH, UNIVERSITY OF AMSTERDAM**
Thesis: "The impact of performance pay on sales and fundraising", supervisor dr. M.J.G. Bun.

SEP 2010
– JUL 2015 **BSc NATURAL & SOCIAL SCIENCES, UNIVERSITY OF AMSTERDAM**
Thesis: "The power of Google", supervisor dr. D.H. Keuskamp.

SEP 2003
– JUL 2009 **GYMNASIUM, BARLEAUS GYMNASIUM**
Profile Nature & Health with Economics.

EXTRACURRICULAR ACTIVITIES

SEP 2015
– SEP 2016 **BOARD MEMBER, QC LEARNING ACADEMY**
Jointly responsible for the day-to-day management of the academy, which runs quantitative consultancy projects for charities and social institutions with teams of econometrics students. Managing two 12-week analytics projects as the project manager.

SEP 2014
– JUL 2015 **STRATEGY CONSULTANT, DE KLEINE CONSULTANT**
De Kleine Consultant is the first non-profit strategy consultant in the Netherlands, run by students and guided by strategy consultancy firm AT Kearney. As a strategy consultant, I did one internationalization strategy project for a 300 FTE company and a product strategy project for a 30 FTE company.

SEP 2013
– JUL 2016 **STUDENT CHAIRMAN, PROGRAM COMMITTEE | FACULTY ECONOMICS AND BUSINESS | UNIVERSITY OF AMSTERDAM**
The program committee is the most important advisory body on the program level for the faculty management. We had monthly meetings on quality of education with professor- and student members and various members of the university board, directors of studies and study advisors of the faculty.

SEP 2012
– JUL 2016 **CHAIRMAN, STUDY ASSOCIATION V.S.A.E**
Chairman of the AENORM committee, responsible for the 'AENORM' magazine of the study association, which offers a platform for the publication of master theses and scientific research papers. Furthermore, responsible for the organization of a Consultancy related event as chairman of the Consultancy Committee.

JAN 2008
– JUL 2011 **DELEGATE, EUROPEAN YOUTH PARLIAMENT**
Representative for the Netherlands at the 57th International Session of the European Youth Parliament in Prague, 2008, and active member of the European Youth Parliament organization.

SCIENTIFIC PUBLICATIONS

The following articles have been published in (or submitted to) peer-reviewed journals:

- Huberts, L.C.E., Does, R. J. M. M., Ravesteijn, B., & Lokkerbol, J. (2021b). Predictive monitoring using machine learning algorithms and a real-life example on schizophrenia [accepted for publication]. *Quality and Reliability Engineering International*
- Huberts, L.C.E., Goedhart, R., & Does, R.J.M.M. (2021a). Improved control chart performance using cautious parameter learning [submitted for publication]. *Computers & Industrial Engineering*
- Huberts, L.C.E., Schoonhoven, M. & Does, R.J.M.M (2020). Monitoring student progress: A case study to predict student success or failure. Early view in the *Journal of Quality Technology*
- Huberts, L.C.E., Schoonhoven, M., & Does, R.J.M.M. (2019). The effect of continuously updating control chart limits on control chart performance. *Quality and Reliability Engineering International*, 35(4), 1117-1128
- Huberts, L.C.E, Schoonhoven, M., Goedhart, R., Diko, M. D., & Does, R.J.M.M. (2018). The performance of control charts for large non-normally distributed datasets. *Quality and Reliability Engineering International*, 34(6), 979-996
- Bun, M.J.G., & Huberts, L.C.E. (2018). The impact of higher fixed pay and lower bonuses on productivity. *Journal of Labor Research*, 39(1), 1-21

COMPETENCIES

SOFTWARE AND PROGRAMMING LANGUAGES | R, Python, Matlab, Mathematica, Stata, SPSS, Minitab, QGIS, Microsoft Office, LaTeX

LANGUAGES | Dutch (native), English (fluent), German (basic)

CERTIFICATES | Trained as Emergency Response Officer by Cura BHV, 2014 IELTS overall band 8.5