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1. Formal educational training

2011 – 2013: Proceedings of habilitation (LMU Munich)

Date of habilitation: 28.10.2013

Degree: Dr. rer. nat. habil., LMU Munich

Mentors:

- Prof. Dr. Hans-Peter Kriegel (LMU)
- Prof. Dr. Andreas Butz (LMU)
- Prof. Dr. Daniel Keim (Univ. Konstanz, Germany)

External Reviewer:

- Prof. Jian Pei, Simon Fraser Univ., Vancouver, BC, Canada

2016–2018: lecturer training program at SDU

participation in higher education courses at SDU:

- Engage your students with discussion forums, blogs and wikis (2017)
- Effective feedback and feedforward (2017)
- Helping students understand assessment – using rubrics, peer review and exemplars (2017)
- Student as learner (2017)
- Research-based teaching (2018)

2. Administrative tasks related to education

2014/1 – 2016/07: Member of the Ph.D. Committee of the Faculty of Mathematics, Computer Science and Statistics, LMU Munich

2017/10-2020/08: Member of the Teaching Committee (Computer Science) for the department (IMADA, SDU)

2018-2019: Contribution in planning and design of a new MSc curriculum “Data Science” (SDU)

since 2020/09: Member of the Teaching Committee (Data Science) for the department (IMADA, SDU)

3. Experience with teaching, supervision and examination

3.1 Teaching experience before coming to SDU

Undergraduate Courses

Tutorial Functional Programming. LMU, Winter 2001/02, Winter 2002/03, Winter 2004/05.

Tutorial Object-oriented Programming. LMU, Summer 2002, Summer 2003.

Tutorial Efficient Algorithms. LMU, Summer 2005.

Tutorial Database and Information Systems. LMU, Winter 2005/06.

Lecture and Tutorial Functional Programming. LMU, Winter 2006/07.

Lecture and Tutorial Object-oriented Programming. LMU, Summer 2007, Winter 2008/09.

Lecture Introduction to Computer Science: Systems and Applications (covers database and information systems, operating systems, computer networks — audience: students with a minor in Computer Science). LMU, Summer 2010

Practical course Software Engineering (covers the implementation of a network multiplayer game using Java). LMU, Winter 2007/08, Winter 2009/10, Winter 2011/12, Winter 2015/16.

Lecture and Tutorial Database and Information Systems. LMU, Winter 2014/15.

Graduate Courses

Tutorial Spatial, Temporal, and Multimedia Databases. LMU, Summer 2006.

Lecture and Tutorial Knowledge Discovery in Databases II. LMU, Summer 2008, Summer 2009, Summer 2010.

Lecture and Tutorial Knowledge Discovery in Databases I. LMU, Winter 2009/10, Winter 2010/11, Summer 2011, Summer 2013, Summer 2014, Summer 2015.

Guest Lecture and Project-Supervision Spatial Data Management and Data Mining (by Prof. Joerg Sander), University of Alberta, Fall 2012.

Courses for PhD Students

Guest lecture Introduction to Data Mining: Clustering and Outlier Detection, Vienna PhD School of Informatics, TU Vienna, Austria, Summer 2014

Guest lecture Clustering and Outlier Detection Methods, University of Naples Parthenope, Naples, Italy, May 28, 2015

Guest lecture Outlier Detection, Vienna PhD School of Informatics, TU Vienna, Austria, Summer 2016

Seminars

Outlier Detection. LMU, Winter 2006/07, Winter 2008/09, Summer 2009, Winter 2009/10, Summer 2010, Winter 2010/11.

Data Mining for Softwaredevelopment. LMU, Winter 2009/10, Summer 2010.

Introduction to Research Methods. LMU, Winter 2010/11, Summer 2011, Winter 2013/14, Winter 2015/16.

Seminar and practical course on scientific research and teaching. LMU, Winter 2013/14.

3.2 Teaching at SDU

Advanced Data Mining

Arthur Zimek

01/02/2018 → ...

Data Mining and Machine Learning

Arthur Zimek

01/02/2019 → ...

Data Mining and Statistical Learning

Arthur Zimek

01/09/2016 → 31/01/2019

Data Mining for Translational Medicine / Applied Machine Learning

Arthur Zimek

01/02/2017 → 31/05/2018

3.3 Supervision

Undergraduate and Graduate (Master-level):

For details see <https://www.imada.sdu.dk/~zimek/studentwork.html>

PhD Students and Postdocs:

For details see <https://imada.sdu.dk/~zimek/group.html>

3.4 Examination and external examiner tasks

SDU:

- chairman of PhD defense

external PhD examiner

- University of Sydney

- Czech Technical University in Prague
- University of Eastern Finland
- KU Leuven
- LMU Munich
- University of Melbourne

external examiner

- ITU