

Eetu Mäkelä – Academic Curriculum Vitae, 29-08-2018

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EDUCATION

05/2017 Title of Docent¹ in computer science, Aalto University, Finland
12/2010 D.Sc. in computer science, Aalto University (nominated for passing with distinction)
06/2006 M.Sc. in computer science, University of Helsinki, Finland (only *laudatur* that year)
 computer science (210 CU): 4/5, mathematics (70 CU): 5/5, sociology (30 CU): 4/5

CURRENT AND PAST ACADEMIC POSITIONS

2017 – Assistant professor (tenure track) in humanities–computing interaction, University of Helsinki
2015 – 2017 Academy of Finland postdoctoral researcher in computer science, Aalto University
2015 University researcher at the University of Helsinki (Funding from Aalto and the Univ. of Oxford)
2005 – 2015 Researcher in computer science, Aalto University
2003 – 2004 Researcher in computer science, University of Helsinki
1999 – 2003 Research assistant at the University of Helsinki Institute of Biotechnology

OTHER RELEVANT WORK EXPERIENCE

2013 – 2014 Consultation on Linked Data for the Finnish Public Broadcaster YLE (Sange Coop)
2013 – Partner at Uutos Helsinki Oy (expert services related to tea)
2009 – Continuing from research to develop a Linked Data system for publishing fiction literature information for the Finnish public libraries (Sange Coop)

CAREER BREAKS: Parental leaves of a total of 5 months

SELF-SECURED RESEARCH FUNDING (total ~700,000€)

2017 Kone Foundation, 36,000€, for a project on microhistory
2016 American Council of Learned Societies, \$36,000, as part of a proposal by Stanford
2016 Stanford University, \$16,000 for continued research collaboration
2015 Academy of Finland project funding, 130,000€, as part of a proposal totaling ~950,000€
2015 Academy of Finland postdoctoral researcher funding, 400,000€
2015 Mellon Foundation, 65,000€, part of proposal by Oxford & Aalto totaling ~700,000€
2014 COST EU Framework, 2,000€, for short term scientific visit to Oxford
2014 Stanford University, \$16,000 for research visit to Stanford
2007 Tekniikan edistämissäätiö, 5,000€, for PhD thesis preparation

LEADERSHIP AND SUPERVISION

2007 – 2013 Cultural and Media Services subproject (2–5 people)
2009 – 2012 Semantic Ubiquitous Services project (3–5 people)
2005 – 2007 Ontology Services subproject (4–5 people)
2005 Intelligent Web Services project (4–6 people)

¹ In Finland, *docent* is purely an academic title. In rank, it sits between Lecturer and full Professor, i.e. it is similar to an Associate Professor, Adjunct Professor or a Reader. There are two basic requirements for the docenture: 1) research merits corresponding to a second doctoral thesis, and 2) good teaching skills.

Completed supervision of seven M.Sc. theses and six B.Sc. theses.

Currently supervising four Ph.D. theses and one M.Sc. thesis.

Supervision of multiple student special work projects.

INSTITUTIONAL RESPONSIBILITIES

- 2018 – Member of guidance group for the department of digital humanities, University of Helsinki
- 2015 – Organization of research seminar, University of Helsinki
- 2011 – 2015 Member of the computer science teaching evaluation group, Aalto University
- 2011 – 2014 Member of the CS and engineering degree programme committee, Aalto University
- 2011 – 2014 Study affairs liaison, Aalto University
- 2008 – 2011 Teacher tutor, Aalto University
- 2007 Organization of research seminar, Aalto University

ACADEMIC COMMISSIONS OF TRUST

- 2018 (future) Member of dissertation committee, Vrije Universiteit Amsterdam
- 2018 (future) Doctoral dissertation opponent, Tampere University of Technology
- 2018 Faculty representative in a doctoral dissertation grading committee, University of Helsinki
- 2018 Invited expert at the Data Literacy Symposium of the German Forum for Higher Education
- 2018 Programme chair, Digital Humanities in the Nordic Countries conference
- 2015 External evaluator, European FET Flagship Human Brain Project
- 2015 Member of appointment committee for university lecturer, University of Helsinki
- 2014 – 2017 Editorial board member for four special issues in the Journal of Web Semantics and the International Journal on Artificial Intelligence Tools
- 2014 External evaluator, the Netherlands Organisation for Scientific Research (NWO)
- 2011 Invited expert at the Stanford Linked Library Data Workshop
- 2008 – 2011 Member of the overall architectural design group, the functional requirements specification group and the technical advisory group in the Finnish National Digital Library project
- 2007 – 2008 Member of the board of the Finnish Artificial Intelligence Society
- 2007 – Dozens of conference program committee memberships
- 2006 – Peer reviewer a total of 25 times in 13 different journals
- 2005 – 2012 Member of the guidance group for four different projects

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2014 – 2018 Work package leader in the EU ISCH COST Action IS1310 “Reassembling the Republic of Letters, 1500–1800”
- 2015 Member in the Europeana Task Force for Enrichment and Evaluation
- 2011 – 2015 Member of the Space and Time workgroup of the European Science Foundation's Network for Digital Methods in the Arts and Humanities (NeDiMAH)

MAJOR COLLABORATIONS

- 2016 – Terttu Nevalainen, University of Helsinki, tools for sociohistorical linguistics
- 2015 – Mikko Tolonen, University of Helsinki, tools for computational history
- 2014 – Stanford University Humanities + Design research laboratory (Nicole Coleman, Dan Edelstein), research on tools for digital humanities
- 2014 – Department of History, University of Oxford (Howard Hotson), research on tools for the Cultures of Knowledge project dealing with the republic of letters
- 2011 – Thea Lindquist, University of Colorado Boulder, improving access to primary sources
- 2008 – Finnish public libraries, research on data services for fiction literature

LONGER RESEARCH VISITS

05/2016 – 07/2016 Stanford University, Humanities + Design research laboratory
11/2014 University of Oxford, Department of History
06/2014 – 09/2014 Stanford University Humanities + Design research laboratory

MAIN AREAS OF SCIENTIFIC INTEREST

- Computer science approaches to supporting digital humanities scholarship
- End-user tools for the visualization and exploration of rich, heterogeneous data
- Integrating and modeling massive amounts of rich, heterogeneous data
- Efficiently storing and querying massive amounts of rich, heterogeneous data
- Tools for automatically extracting structured data from text

PUBLICATION ACTIVITY

- 85 scientific publications: 14 journal articles, 1 book chapter, 62 peer-reviewed conference papers, 4 non-refereed scientific articles in journals, 2 non-refereed articles in conferences, an edited conference proceedings, a doctoral thesis and a master's thesis.
- 1873 citations. h-index: 21, m-quotient: 1.6, g-index: 42, i10-index: 35 (Google scholar, 29-08-2018)

AWARDS, PRIZES AND HONOURS

2017 Open Data Prize, Linked Open Data in Libraries, Archives & Museums Challenge
2017 Outstanding reviewer award from the Journal of Web Semantics (Elsevier)
2016 Elsevier award for top 5 cited paper 2013-2016 in the journal Web Semantics: Science, Services and Agents on the World Wide Web
2016 Finnish Ministry of Education and Culture award for innovative usage of open data by a person or group, as part of the Computational History (COMHIS) project
2016 Best paper award, Workshop on Humanities in the Semantic Web
2014 Apps4Finland open science and research challenge award
2014 Apps4Finland data refining challenge award
2014 Integral member and subproject leader in the FinnONTO project, which led to the Finnish State Award for Public Information 2014 being given to the project lead
2012 The Semantic Web Journal's outstanding paper award for academic year 2011/2012
2010 D.Sc. thesis nominated for passing with distinction
2010 United Nations World Summit Award. Selected from 430 applications in the global final, themselves from about 100 national competitions.
2006 Best paper finalist, International Semantic Web Conference
2006 M.Sc. thesis finalist in SIGCHI thesis competition
2006 M.Sc. thesis department nominee at SMFL thesis competition
2006 M.Sc. thesis given the only Laudatur grade in 2006 at the University of Helsinki CS Dept.
2004 Semantic Web Challenge Award
2004 Prime minister's commendation, most innovative web application
2004 Jury-nominated finalist, Nordic digital excellence in museums awards

INVITED PRESENTATIONS FOR INTERNATIONAL AUDIENCES

12/2018 Linked Pasts IV conference, Mainz, Germany
11/2017 Open Licences, Content & Data: Tools for Digital Humanities conference, Tartu, Estonia
07/2017 Ending keynote, LinDH Digital Humanities Summer School, Madrid, Spain
06/2017 CLARIN-PLUS Workshop on User Involvement, Helsinki, Finland
12/2016 Building and Using Language Technology Seminar, Helsinki, Finland
11/2016 Keynote, The Second National SWE-Clarín Workshop, Umeå, Sweden

- 06/2016 Named Entity Recognition in Digital Humanities Workshop, Helsinki, Finland
 - 03/2015 Reassembling the Republic of Letters conference, Oxford, United Kingdom
 - 03/2015 Open Science Show & Tell, Helsinki, Finland
 - 08/2014 LODLAM Training Day, Semantic Tech & Business Conference, San Jose, United States
 - 11/2012 DigiEduEt EU-project steering group meeting, Helsinki, Finland
 - 03/2011 Pelagios consortium workshop, London, England
 - 10/2007 Intelligent Access to Digital Heritage conference, Tallinn, Estonia
 - 11/2006 EU Document Lifecycle Management Forum, Helsinki, Finland
- + Dozens of invited talks to Finnish audiences.

PUBLIC AND MEDIA APPEARANCES RELATED TO ACADEMIC WORK

- 2013 – 2018 Demonstrations of programming, robotics and generative art for kindergartens and primary schools
- 10/2017 Expert judge, Hack the law hackathon
- 2016 – 2017 Track organizer, Hack4FI cultural heritage hackathon
- 09/2016 Expert interviewee, “Scientific After-party”, European Researcher’s Night, Helsinki
- 10/2015 Expert interviewee, “Digitaaliset ihmistieteet ja tutkimuksen avoimuus”, Helsinki Book Fair
- 08/2015 Expert interviewee, “KONEIDEN YÖ: Kone, Koneisto - Ihminen?”, Night of the Arts, Helsinki
- 11/2012 Expert interviewee, MikroPC magazine

SCIENTIFIC AND SOCIETAL IMPACT OF RESEARCH

- Multiple open source projects published on GitHub have seen take-up by others
- The LAS language analysis service is going to be included as part of their research infrastructure by the Finnish IT Center for Science, 2018
- The data.finlex.fi legislation data service was taken up by the Finnish Ministry of Justice in 2016
- The Aether tool was integrated as a part of a commercial RDF cloud database in 2015
- Parts of the VISU tool were integrated into an RDF database frontend in 2015
- Various tools developed with Oxford since 2014 have gone into production there
- The Palladio tool developed at Stanford since 2014 has wide take-up in the humanities
- The ONKI ontology infrastructure was transferred to the Finnish National Library in 2014
- The SAHA metadata editor has been used by the Finnish public libraries since 2009
- The EMO Linked Data server has been used by the Finnish public libraries since 2010
- Different versions of the ARPA information extraction system have been used by e.g. the Finnish public libraries, the Finnish public broadcaster YLE and Yritys-Suomi.

TEACHING ACTIVITIES

Pedagogical training: teaching skills course (5 CU), teacher tutor course (2 CU)

- 2015 – Planner, digital humanities minor, University of Helsinki
- 2015 – Planner and lecturer, multiple courses, University of Helsinki
- 2005 – 2016 Planner and lecturer, multiple courses, Aalto University
- 2009 Planner and teacher, semantic web course, EU MovITplus training programme
- 2008 – 2010 Planner and teacher, semantic web course, learning center Dipoli

TEACHING RESOURCE DEVELOPMENT

- 2017 – Introduction to methods for digital humanities MOOC, published under <http://heldig.fi/teaching/introduction-to-methods-for-digital-humanities>
- 2016 – 2017 LinDa, an online learning resource about Linked Data published under mooc.aalto.fi

COURSE DESIGN PHILOSOPHY

First, identify core content and learning goals. A particular focus for me has been to aim for a holistic view and deeper understanding of the fundamentals of the subject, as opposed to delving into (often soon to become obsolete) technical details. Often, this has been accomplished by providing many different viewpoints into the matter, and then forcing the students to actively engage with, contrast and problematize them.

Second, choose from available pedagogical methods (e.g. reading circles, practical assignments, group presentations, flipped classroom, ...) the ones that best fulfil each learning goal, and also force deeper student engagement with the subject matter. Novel methods should not be used for their own sake, but with so many methods to choose from, one still ends up with a refreshing (but not too confusing) mix.

Finally, organize the selected submodules into a workable timetable, and ensure they hang together and support each other to make a whole greater than its parts.

FEEDBACK

Introduction to Digital Humanities – usefulness of course rated at 4,5 out of 5. Sample reviews:

- “The fact that we were "forced" to do a little hands on project was a really good thing. It taught me a lot but also gave me ideas for further research etc.”
- “I liked the concrete research examples and the visitors telling about their own stuff.”
- “I think there was a good balance between group work, teaching from slides and other assignments.”

Introduction to Methods in Digital Humanities – usefulness of course rated at 4,6 out of 5. Sample reviews:

- “I liked the variety of topics covered during the course and the fact that it gave me more confidence in using and exploring the tools. I also appreciated the friendly atmosphere and laid-back attitude of the teachers.“
- “In particular, I liked that the course material was practical, based on the lecturers' own research or some other actual projects. Since I also took the introduction course, I can say that they complemented each other very well.”
- “The teacher was very engaged and enthusiastic”
- “The flexibility and teachers' attitude was always positive and great. Attending the lecture because it is compulsory or trying to collect points to pass the course are a bit old-fashioned in my opinion and this course was totally the other way around. It made me feel like as long as I want to learn what is offered, I will be supported”

Digital Humanities Hackathon sample reviews:

- “toughest but most rewarding week of yours studies”
- “The hackathon was just as interesting an experience as I had expected.”
- “I like the idea, bringing together people from different backgrounds. It's good to talk and share. The organization of the course was also highly efficient and sensible.”
- “I was also curious about what and how much could be achieved in just one week, especially in a group consisting of ‘strangers’. As it turns out, we were able to produce a surprisingly wide spectrum of information.”
- “The hackathon week was a very intensive one indeed, but I am glad to realise that I walk away from it with many new acquaintances, lessons learned and realizations. I might also join the hackathon again next year!”

Web Services - usefulness of course content rated at 4 out of 5. Overall scores consistently in the top ¼ of the non-seminar courses taught (last 4 of 5). Sample reviews:

- “A positive experience, from which it is difficult to find room for improvement.”
- “A fine course, with an implementation refreshingly different from the traditional lectures/mass exam. The positive and bright outlook of the lecturer was a big plus.”
- “The organization and grading were really different than in other courses, something fresh. This approach is certainly better for really learning and understanding.”
- “I liked that the course was quite practice-oriented and encouraged discussion. The lecturer's laid-back attitude and real world examples made the lectures fun.”