CHRISTOFFER OLLING BACK

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PhD researcher focusing on business process modeling and process mining: a form of data mining which extracts interpretable business process models from event logs for predicting outcomes, prescribing courses of action and process optimization and re-engineering.

In addition to my academic pursuits, I am a trained glass artist and have developed a novel digital fabrication technology for shaping glass. Before returning to academia, I spent a few years building a small business and independently developing this technology.

EDUCATION

PhD in Computer Science *University of Copenhagen, Denmark* *(in progress) 2017-2020*
Hybrid Business Process Management Technologies project
Coursework: Deep Learning, Machine Learning, Mathematical Logic, Process Mining, Responsible Conduct of Research

MSc in Artificial Intelligence *University of Edinburgh, UK* *2011*
Coursework: Adaptive Learning Environments, Agent-based Systems, Applied Machine Learning, Automated Planning, Economics, Text Technologies (NLP), Java Programming, etc.
MSc Thesis: *Modeling Strategic Negotiation Behavior in Colored Trails*

BA in Psychology *Lewis & Clark College, USA* *2008*
Coursework: Artificial Intelligence, Cognition, Computer Science 1 & 2, Human Computer Interaction, Psychology Methodology, Statistics, Physiological Psychology, Social Psychology, etc.

OTHER EDUCATION & AWARDS

Supplementary Coursework (25 ECTS): Mathematics *2016*
Roskilde University, Denmark *(top results)*
Independent Project: *"Mathematical Foundations of Probabilistic Topic Modeling"*
Mathematical Modeling & Dynamic Systems (differential equations)
Mathematical Analysis 1 (real analysis)

BA in Applied Art (Glass) *2012*
Royal Danish Academy of Fine Art, School of Design, Denmark

Awards & Scholarships
Nordea Fonden Scholarship (University of Edinburgh) *2010*
Dean's Honor List (Lewis & Clark College) *2007*
Prairie State Achievement Award, Illinois State Scholar (High School) *2003/4*

PUBLICATIONS

Christoffer Olling Back, Søren Debois, and Tijs Slaats. Towards an Entropy-based Analysis of Log Variability. In *Lecture Notes in Business Information Processing*, 2017.

(Presented at 1st Workshop on Business Process Innovations using Artificial Intelligence, BPM Conference 2017)

SOFTWARE

QMPM Quality Metrics for Process Mining *2017/8*
A framework for efficient, cross-paradigm evaluation of process models against event logs. *www.qmpm.org*

TEACHING

Assistant Teacher *2018*
Software Engineering (MSc course) *University of Copenhagen*

Tutor *2018*
Software Development & Linear Algebra in Computer Science *University of Copenhagen*
For two Computer Science BSc students

Tutor *2014 - 2015*
English - for two Danish high school students. *Private*

WORK EXPERIENCE

Olling Glass (www.ollingglass.com) *2009 - Present*
Founder *Sj. Odde, Denmark*
Design and production of glass products using novel digital fabrication technology.

Back Electronics A/S *2008 - 2017*
Electronics Technician *Birkerød, Denmark*

Hempel Glass Museum *2013 - 2014*
Demonstrator *Nykøbing Sj., Denmark*

Glashytten *2012 - 2013*
Production Assistant *Nykøbing Sj., Denmark*

VOLUNTEER WORK

Geopark Odsherred Streger *2015 - present*
Translation of text from Danish to English for a series of postcards and posters. *Sj. Odde, Denmark*

Lewis & Clark College Student Cooperative *2006-2008*
IT-Coordinator: Maintenance of Linux based desktops and POS system. *Portland, OR, USA*

SKILLS

Programming Java, Python, C♯, C, UML, Arduino
Typesetting LaTeX, Gnuplot, PGF/TikZ
Design, etc. Glassworking, OpenSCAD, 3D Printing

LANGUAGE PROFICIENCY

English Mother tongue
Danish Mother tongue
Norwegian Intermediate
Swedish Basic
Spanish Elementary
Japanese Elementary

ART EXHIBITIONS

2010 Galleri Rasch
2012 Bornholms Kunstmuseum
2012 Svanekegården
2012 Danmarks Designskole
2013 Allé Optik
2013 Laugenes Opvisning
2014 Kulturkasernen 2016
2015 Galleri Juel Verland Art
2016 Galleri Arta 22
2016 Laugenes Opvisning
2018 Galleri Arta 22