

# CHRISTOFFER OLLING BACK

Denmark ◊ U.S.A.

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ORCID ID: 0000-0001-7998-7167

PhD researcher focusing on business process analytics using artificial intelligence techniques and process mining: a form of data mining which extracts interpretable business process models from event logs for the purpose of workflow improvement through bottleneck identification, compliance checking, operational support, and more.

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

*Professional and academic references available upon request.*

## EDUCATION

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<b>PhD in Computer Science</b>	2017-2020
University of Copenhagen, Denmark	
<i>Hybrid Business Process Management Technologies project</i>	
Funded by the Danish Council for Independent Research	
<b>MSc in Artificial Intelligence</b>	2011
University of Edinburgh, UK	
<b>BA in Psychology</b>	2008
<i>Concentration on AI and HCI</i>	
Lewis & Clark College, USA	

## OTHER EDUCATION & AWARDS

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<b>Supplementary Coursework (25 ECTS): Mathematics</b>	2016
Roskilde University, Denmark	
Independent Project: <i>"Mathematical Foundations of Probabilistic Topic Modeling"</i>	
Mathematical Modeling & Dynamic Systems (differential equations)	
Mathematical Analysis 1 (real analysis)	
<b>Coursera.org Certificates</b>	2016-8
Machine Learning, Process Mining, Algorithms & Data Structures	
<b>BA in Applied Art (Glass)</b>	2012
Royal Danish Academy of Fine Art, School of Design, Denmark	
<b>Awards &amp; Scholarships</b>	
Nordea Fonden Scholarship (University of Edinburgh)	2010
Dean's Honor List (Lewis & Clark College)	2007
Prairie State Academic Achievement Award (Illinois Board of Education)	2003

## PUBLICATIONS

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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)

## TEACHING

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<b>Assistant Teacher</b> <i>Software Engineering</i> (MSc course)	2018 University of Copenhagen
<b>Tutor</b> <i>Software Development &amp; Linear Algebra in Computer Science</i> For two students taking BSc in Computer Science (Data Science specialization)	2018 University of Copenhagen
<b>Tutor</b> <i>English</i> - for two Danish high school students.	2014 - 2015 Private

## WORK EXPERIENCE

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<b>Olling Glass</b> (www.ollingglass.com) <i>Founder</i>	2009 - Present Sj. Odde, Denmark
Design and production of glass products. Transitioning to automated production and AI assisted design.	
<b>Back Electronics A/S</b> <i>Electronics Technician</i>	2008 - 2017 Birkerød, Denmark
<b>Hempel Glass Museum</b> <i>Demonstrator</i>	2013 - 2014 Nykøbing Sj., Denmark
<b>Glashytten</b> <i>Production Assistant</i>	2012 - 2013 Nykøbing Sj., Denmark

## VOLUNTEER WORK

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<b>Geopark Odsherred Streger</b> <i>Translator</i>	2015 - present Sj. Odde, Denmark
Translation of text from Danish to English for a series of postcards and posters.	
<b>Lewis &amp; Clark College Student Cooperative</b> <i>IT-Coordinator</i>	2006-2008 Portland, OR, USA
Maintenance of Linux based desktops for public use as well as a Point of Sale system.	

## SKILLS

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<b>Programming</b>	Java, Python, C#, C, Jason, Matlab, PDDL, OpenSCAD, regex, GNU/Linux
<b>Data Mining</b>	Machine learning, process mining (ProM, etc.), NLP, Weka data mining suite
<b>Academic</b>	Scientific writing, empirical evaluation, L <sup>A</sup> T <sub>E</sub> X, Gnuplot, PGF/TikZ
<b>Commercial</b>	Product development, entrepreneurship, marketing, accounting, tax compliance
<b>Design, etc.</b>	Glassworking, 3D Printing, Arduino, GIMP, Photoshop, Cinema 4D

## LANGUAGE PROFICIENCY

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<b>English</b> Mother tongue	<b>Norwegian</b> Intermediate	<b>Spanish</b> Elementary
<b>Danish</b> Mother tongue	<b>Swedish</b> Basic	<b>Japanese</b> Elementary

## ART EXHIBITIONS

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