

# Patrick Kasper

## Curriculum Vitæ

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### Personal Information

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Date of Birth November 4, 1987  
Nationality Austria

### Education

2015–now **PhD Student**, *Graz University of Technology*.  
Doctoral School of Computer Science  
2013–2015 **Diplom-Ingenieur (MSc)**, *Graz University of Technology*.  
Master's program: Software Development and Business Management  
2007–2013 **Bachelor of Science (BSc)**, *Graz University of Technology*.  
Bachelor's program: Software Development and Business Management  
1997–2006 **Matura**, *BRG Kepler, Graz*.

### Master's Thesis

Title *New Features for a Better Understanding of Human Navigation on the Internet*  
Supervisor Assoc.Prof. Dipl.-Ing. Dr.techn. Denis Helic  
Description Implementation of a novel user tracking method on websites. Further, conduction of a user study with the tracker and analysis of the results.

### PhD Studies

Working Title *Extracting User Behavior from Action Sequences*  
Supervisor Assoc.Prof. Dipl.-Ing. Dr.techn. Denis Helic  
Description Modeling and analysis of users based on their interaction sequences with digital platforms, such as collaboration websites, banking systems, and video games.

### Publications

2018 *Investigating Helpfulness of Video Game Reviews on the Steam Platform*  
Fifth International Conference on Social Networks Analysis, Management and Security (SNAMS). IEEE  
Accepted *Modeling User Dynamics on Collaboration Websites*  
Dynamics On and Of Complex Networks III, Springer, ISBN: 978-3-030-14682-5  
Under Review *Inferring Editor Roles in Ontology Engineering Projects*  
Under Review *Bridging the Community Barrier - Consensus through Decaying Recall Probabilities*

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## Work Experience

- 06/2016–now **University Assistant**, *Graz University of Technology*, Graz.  
Research on the PhD project and teaching of undergraduate courses.
- 02/2017–05/2017 **Visiting Researcher**, *Stanford University*, Stanford CA.  
Analysis of user editing patterns on the ontology editor WebProtégé.
- 03/2016–11/2016 **Software Developer**, *Both Interact GmbH*, Graz.  
Implementation of customizations for various eCommerce platforms.
- 06/2015–11/2015 **Scientific Project Collaborator**, *Graz University of Technology*, Graz.  
Development of a framework and conduction of experiments for the PhD project
- 05/2015–07/2015 **Independent Software Developer**, *Suntours SL Sailing*, Graz.  
Design and implementation of a robust online booking and management system.
- 01/2014–now **Data Engineer and Database Developer**, *WSS Redpoint*, Cologne.  
Development and implementation of a database interface for the aggregation and analysis of business data as a side project.
- 12/2012–12/2014 **Web Developer**, *WSS Redpoint*, Cologne.  
Software design and implementation of a website (<http://wss-redpoint.com/>)
- 11/2008–11/2013 **Web Developer**, *n!faculty e.V.*, Cologne.  
Feature enrichment on an old website and software design and development of a new website using PHP and JavaScript.

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## Languages

German	Native
English	Full professional proficiency
French	Limited working proficiency

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## Programming Languages

Professional	Python, PHP, SQL, HTML/CSS, JavaScript, NodeJS
Intermediate	C, C++, C#, Java, NoSQL, R

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## Computer Skills

**Agent Based Systems / Dynamical Systems** (modeling crowd dynamics), **Databases** (design and use of relational and object-oriented databases), **Data-Mining** (crawling of large amounts of data from websites, sanitizing acquired data), **Data-Science / Machine Learning** e.g., (neural embeddings, clustering and classification methods), **eCommerce** (developing extensions for existing platforms and data migration), **High Performance Computing** (distributed systems, and cloud based computation platforms), **Information Visualization** (displaying correlations in data, visualizations of large graphs), **Knowledge Discovery** (extracting knowledge from fuzzy data), **Network Analysis** (handling of large networks/graphs and extraction of characteristic properties), **Software Development** (development processes, team leading, Scrum), **User/Usability Testing** (planning, execution and analysis of user tests, A/B tests), **User Tracking** (collecting and combining user footprints and traces on the internet), **Web Development** (implementation of applications, toolkits and frameworks for use on the internet and database management), **Web Science** (extracting networks or activity, analysis of social or collaboration platforms)

Graz, January 4, 2019



Dipl.-Ing. Patrick Kasper, BSc