

SZYMON KLARMAN

Curriculum Vitae

Personal details

Born: 1981, Poland
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Networks: [LinkedIn](#), [Google Scholar](#), [Medium](#), [Twitter](#), [GitHub](#), [SlideShare](#)

Profile

An R&D specialist in **knowledge engineering** with particular interest in connected data technologies:

- ✓ 10+ years of **R&D experience** in academia and industry
- ✓ Deep interest in **knowledge technologies**
- ✓ Strong **analytical, communication** and **organizational** skills
- ✓ Experience in individual and team-based **project work**
- ✓ Enthusiasm for **learning** and exploring new problems

Expertise: knowledge engineering, knowledge representation, automated reasoning, semantics, ontologies, taxonomies, linked data, graph data, open data publishing, algorithm design, data modelling, natural language processing, computational & probabilistic logics, basic data mining and machine learning, prototyping

Current role

June 2018 - now
Warsaw, Poland

Owner / knowledge engineer
Epistemik

- consulting and delivering bespoke knowledge engineering solutions (*data models and architectures, ontologies, algorithms, natural language processing pipelines, software prototypes, microservice architectures, etc.*)
- advocating linked/graph data and semantic techniques for knowledge applications
- driving R&D activities within projects employing AI technologies
- current and past clients, predominantly within start-up and non-profit space, include:
 - [Stockholm Environment Institute](#) (Sweden) - solution architect & developer
 - [UN Division for Sustainable Development Goals](#) (US) - linked data consultant
 - [Granthika](#) (US/Canada) - director of R&D
 - [Neural Alpha](#) (UK) - knowledge architect
 - [Data to Value](#) (UK) - ontology consultant

Previous experience

2017 - 2018
London, United Kingdom

Knowledge architect **Semantic Integration**

- developing a microservices-based data architecture as an onsite consultant at [PhotoBox](#)
- initiated and lead the development of the open-source project [HyperGraphQL](#): a GraphQL interface for querying linked data
- consulting and delivering R&D contributions towards diverse PoCs and prototypes

2016 - 2017
London, United Kingdom

R&D engineer **Grakn Labs**

- R&D work by the design and development of GRAKN knowledge graph platform; involved primarily in designing the underlying knowledge representation model
- gathering requirements, knowledge engineering and writing data transformation scripts in the context of PoC applications
- benchmarking query and reasoning performance of selected graph databases

2015 - 2016
London, United Kingdom

Research fellow Brunel University London / [Department of Computer Science](#)

- research work by the DARPA's [Big Mechanism](#) programme (goal: *development of novel AI technology for extracting, assembling and explaining large mechanistic models described in the cancer biology literature to facilitate future scientific discovery*)
- responsible for developing the knowledge assembly system (based on the application of semantic and probabilistic/statistical inference tools/techniques), and maintaining the knowledge graph for the project consortium

2013 - 2015
Pretoria, South Africa

Postdoctoral researcher CSIR Meraka Institute & University of KwaZulu-Natal / [Centre for Artificial Intelligence Research](#)

- independent research work (main themes: *ontology-based access to temporal data, abductive reasoning*)
- research work by [MomConnect](#) project (goal: *implementation of a mobile platform for supporting pregnant women in rural Africa*)

2008 - 2012
Amsterdam, Netherlands

Ph.D. research assistant VU University Amsterdam / [Knowledge Representation & Reasoning Group](#)

- research work towards the doctoral degree (main theme: *formal mechanisms for managing contexts in Description Logic ontologies*)

2007 - 2008
Amsterdam, Netherlands

Research assistant University of Amsterdam / [Leibniz Center for Law](#)

- research and knowledge engineering work by the [ESTRELLA](#) project (goal: *development of the Legal Knowledge Interchange Format*)

2005 - 2006
Dublin, Ireland

Data entry operator [Millward Brown](#)

- processing and curating data from marketing research surveys

Education

2008 - 2013

Amsterdam, Netherlands

Ph.D. Artificial Intelligence

VU University Amsterdam / [Department of Computer Science](#)

2006 - 2008

Amsterdam, Netherlands

M.Sc. Logic

University of Amsterdam / [Institute for Logic, Language & Computation](#)

2000 - 2005

Lodz, Poland

M.A. Philosophy

University of Lodz / [Institute of Philosophy](#)

Other

Awards & honors:

- **best student paper** award (with V. Gutierrez-Basulto) at the [International Workshop on Description Logics](#) (2011).
- **Huygens Scholarship** awarded by the Netherlands Organization for International Cooperation in Higher Education (2006-2007).
- **cum laude** distinction for the overall results in both master's programs (2005, 2008).
- **distinction** in the [Competition for Master's Theses on Logic and Its Applications](#) awarded by the Polish Association for Logic and Philosophy of Science (2005)

Community involvement:

- **co-author** of 20+ [publications](#) in academic journals, conference and workshop proceedings
- **co-organizer** or **program committee** member for 10+ international conferences and workshops
- **guest editor** of a [special issue of the International Journal of Approximate Reasoning](#)
- **reviewer** for 20+ international journals, conferences and workshops
- **visiting researcher** at [University of Edinburgh](#), [FBK Trento](#), [University of Bremen](#), [TU Dresden](#)
- **invited speaker** at [Connected Data London Conference 2016-17](#), [Semantic Web London Meetup 2017](#), [Connected Data London Meetup 2016](#)

Teaching:

- introduction to description logics for M.Sc. Artificial Intelligence (VU University Amsterdam, 2009-2012); philosophy & ethics classes for school children (2004)
- co-supervising master's projects for M.Sc. Artificial Intelligence (VU University Amsterdam).

Languages:

English (full professional proficiency); German, Dutch (basic, passive); Polish (mother tongue)