



CHRISTOPHE GUERET
Lead AI Research Scientist

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Summary

Experienced artificial intelligence researcher and software engineer specialised in Semantic Web technologies. Handles the planning and delivery of research projects from business needs, to logical design, to the implementation of a technical solution

Highlight

- Experienced researcher
- Sharp problem solver
- Creative thinker
- Tooling/prototypes builder
- Good communicator
- Good networker
- Strong team player able to work independently as needed
- Hands-on mentality

Education History

- Sept 2002 - PhD, Computer Science
Dec 2006 Laboratoire d'Informatique de l'Université de Tours (LI) - France
Research on swarm algorithms applied to network-based information dissemination.
- Sept 2001 - Master Degree, Computer Science
July 2002 Laboratoire d'Informatique de l'Université de Tours (LI) - France
Research on on 3D landscapes representation applied to interactive geo-located information portals
- Sept 1999 - Engineering diploma, Computer science applied to Industry
July 2002 Ecole d'Ingénieurs en Informatique pour l'Industrie (E3I) - France

Work History

- Feb 2017 - present Lead Research Scientist / Tech4Good Ambassador
Accenture Labs - Ireland
Doing research on Semantic Web and coordinating the "Tech4Good" agenda for the Irish research lab.
Accomplishments:
 - Lead a research activity around AI applied to farming
- Sept 2015 - Jan 2017 Senior Software Engineer
British Broadcasting Corporation (BBC) - UK
Working on a data aggregation project for Linked Open Data (RES). Focusing on the technical implementation and interface with end users.
Accomplishments:
 - Contributed to tackle design and implementation issues in RES
 - Designed and conducted work on data enrichment with R&D
 - Produced appealing demos and accessible documentation
- Oct 2012 - Sept 2015 Researcher
Data Archiving and Networked Services (DANS) - Netherlands
Worked at a digital preservation institute of the Royal Netherlands Academy of Arts and Sciences (KNAW) and the eHumanities research program of the KNAW. Lead a project on data integration for historical census data and helped shape the future data architecture of DANS
Accomplishments:
 - Delivered an integrated census dataset and processing pipeline
 - Lead a project on downscaled Semantic Web
 - Contributed to planning the future Common Lab Research Infrastructure for the Arts and Humanities (CLARIAH)
 - Active member of the W3C and (inter)national data communities
- Oct 2007 - Aug 2012 Post-doctoral researcher
VU University Amsterdam (VUA) - Netherlands
Conducted research at the intersection of Knowledge Representation, Complex systems and Computational Intelligence. Worked with public and private data, with data prosumers ranging from established public institutions to African farmers (<http://www.w4ra.org/>)
Accomplishments:
 - Initiated the research on "Downscaling" data sharing
 - Lead the participation of the VU in a EU data integration project
 - Published several well cited research papers

Research expertise

- Complex Systems
- Computational Intelligence
- Semantic Web / Linked Data
- Information and Communication Technologies for Development (ICT4D)
- Data preservation
- Decentralised information systems

Further experience

- Machine learning
- Big Data (Hadoop / NoSQL)
- NLP
- Data visualisation
- Distributed information systems

Languages

- French (native)
- English (fluent)
- Dutch (basic)

Selected research community participation

- | | |
|----------------|--|
| 2014 | Guest editor
Semantic Web journal (SWJ) |
| 2007 - present | Reviewer
Journal of Systems and Software, Journal of Web Semantics (JWS), Semantic Web journal (SWJ), IEEE Internet Computing, Journal On Advances in Internet Technology |
| 2009 - present | Member of Program Committee
Extended Semantic Web Conference (ESWC), World Wide Web conference (WWW), International Semantic Web Conference (ISWC), International Conference on Knowledge Engineering and Knowledge Management (EKAW), DublinCore conference (DC) |
| 2003 - present | Member of Organizing Committee or Chair
Workshops (Natures, DownScale), Conferences (ESWC), Tutorials (LATC, LD4D, KR4D) |

Other activities

- | | |
|-------------------------|--|
| 2011 - present | World Wide Semantic Web https://worldwidesemanticweb.org/
Co-creator and leading member of the community
Research how to improve knowledge sharing in challenged conditions (literacy, computing power, connectivity, energy, ...) |
| Sept 2013 - present | Land Portal http://landportal.info/
Member of Technical Architecture Group (TAG)
Contribute experience on system architecture and knowledge representation best practices for publishing information about land usage |
| July 2011 - August 2015 | W3C
AC representative for the VUA Amsterdam and member of several working groups
Contributed to creating standards for the Web |
| 2010 - 2014 | OLPC and SugarLabs
Community supporter and active member
Contributed developing software, ideas and relations within the community |

Publications highlight

- [1] GUÉRET, Christophe ; CUDRÉ-MAUROUX, Philippe: The Entity Registry System: Publishing and Consuming Linked Data in Poorly Connected Environments. In: ERCIM News (2014), April, S. 54–55
- [2] GUÉRET, Christophe ; BOER, Victor de ; SCHLOBACH, Stefan: Let's "Downscale" Linked Data. In: IEEE Internet Computing 18 (2014), Nr. 2, S. 70–73. – ISSN 1089–7801
- [3] GUÉRET, Christophe ; SCHLOBACH, Stefan ; BOER, Victor D. ; BON, Anna ; AKKERMANS, Hans: Is data sharing the privilege of a few ? Bringing Linked Data to those without the Web. In: Proceedings of ISWC2011 Outrageous ideas track (2011), S. 1–4. – Best paper award
- [4] GUÉRET, Christophe ; GROTH, Paul ; STADLER, Claus ; LEHMANN, Jens: Assessing Linked Data Mappings using Network Measures. In: Proceedings of ESWC2012, 2012. – Nominated for best paper award
- [5] GUÉRET, Christophe ; WANG, Shenghui ; GROTH, Paul ; SCHLOBACH, Stefan: Multi-scale Analysis of the Web Of Data: A Challenge to the Complex System's Community. In: Advances in Complex Systems 14 (2011), Nr. 04, S. 587. – ISSN 0219–5259
- [6] GUÉRET, Christophe ; GROTH, Paul ; VAN HARMELEN, Frank ; SCHLOBACH, Stefan: Finding the Achilles Heel of the Web of Data : using network analysis for link-recommendation. In: Proceedings of the 9th International Semantic Web Conference (ISWC2010), 2010