

Inès Blin | Research Assistant

Ph.D. candidate in AI

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I am an industrial Ph.D. student in collaboration between the Sony Computer Science Laboratories - Paris and the Vrije Universiteit Amsterdam. My main research interest is on constructing narratives through structured representations.

Education

- Vrije Universiteit Amsterdam, Mathematics and Computer Science Department** **Amsterdam**
Ph.D. in computer science: Building Narratives through Structured Representations. *Since 10/2021*
Competencies: Knowledge Graphs (Construction, Querying, Optimization), Reasoning, LLMs.
Supervisors: prof. Annette ten Teije, dr. Ilaria Tiddi, dr. Remi van Trijp.
- University of Cambridge, Computer Science and Technology Department** **Cambridge**
MPhil in Advanced Computer Science (Natural Language Processing, Computer Vision), Distinctions. *2019-2020*
Dissertation: Lexical Text Adaptation for Different Readability Levels.
Supervisor: dr. Ekaterina Kochmar.
- General Engineer School Ecole Centrale Paris** **Paris area**
MSc. in Mathematics and Computer Science *2016-2019*
Ranked by L'Étudiant as #2 French Engineering School in 2020.
Algorithms and Programming, Mathematics, Software development, Graph Theory, Machine Learning, Databases.
- Preparatory School Lycée Privé Sainte Geneviève** **Paris area**
Preparatory Class MPSI/MP. (Intensive preparation in Mathematics and Physics) *2013-2016*
Ranked by L'Étudiant as #1 French Classe Préparatoire aux Grandes Écoles in 2016.

Work Experience

- Sony Computer Science Laboratories - Paris** **Paris**
Research Assistant *Since 8/2024*
Developing a unified framework for narrative generation, combining structured representations through two key steps: knowledge graph construction and narrative synthesis.
- Vrije Universiteit Amsterdam** **Amsterdam**
Research Assistant *2/2024-8/2024*
Hired as part of an NWO Project to create living meta-analyses, Grant Research #406.XS.04.118
Developed automated hypothesis discovery workflows and dynamically published results in HTML format.
- Sony Computer Science Laboratories - Paris** **Paris**
Research Assistant *1/2021-1/2024*
Hired as part of the MUHAI European Project - Part of Horizon 2020, Grant Research #951846
Worked on Knowledge Graph Construction and Narrative Generation
○ Finding the best structured representation for a narrative
○ Developed methods to extract and filter domain-specific data for KG construction and question-answering
- Augustus Intelligence** **Paris**
Applied AI Engineer *9/2020-1/2021*
Refactored a data pipeline entirely, performed email clustering with unsupervised and semi-supervised techniques.
- Circles.Life** **Singapore**
Software Engineer *1-7/2019*
Implemented multilingual support for an internal application and automated weekly meeting preparations.
- Allianz** **Paris area**
Data Scientist *7-12/2018*
Implemented a search tool to match job offerings with resumes, and a clustering model for structured documents.

Publications

A * denotes equal contributions. See my Google Scholar for the most up-to-date list.

- **I. Blin**, I. Tiddi, R. van Trijp, A. Ten Teije. "ChronoGrapher: Event-centric Knowledge Graph Construction via Informed Graph Traversal". (Under submission)
- **I. Blin**, I. Tiddi, G. Spadaro, A. Ten Teije. "Automated Hypothesis Generation for Human Cooperation Studies.". (Under submission)
- M. Galletti*, **I. Blin***, E. Ilkou. "Automated Concept Map Extraction from Text." (Under submission)
- **I. Blin**, A. Ten Teije, F. van Harmelen, I. Tiddi. "Structured Representations for Narratives". International Conference on Knowledge Engineering and Knowledge Management (EKAW 2024)
- **I. Blin**, I. Tiddi, G. Spadaro, A. Ten Teije. "Living Meta-Review Generation for Social Scientists: An Interface and A Case Study on Human Cooperation". International Conference on Knowledge Engineering and Knowledge Management (Demo Paper, EKAW 2024)
- G. Prevedello*, **I. Blin***, B. Monechi, E. Ubaldi. "Lyrics for success: embedding features for song popularity prediction". NLP for Music and Audio. (NLP4MusA@ISMIR 2024)
- **I. Blin**, L. Stork, L. Spillner, C. Santagiustina. "OKG: A Knowledge Graph for Fine-grained Understanding of Social Media Discourse on Inequality". The 12th Knowledge Capture Conference (K-CAP 2023, **nominated for best student paper award**)
- **I. Blin**, L. Stork, I. Tiddi, A. Ten Teije, F. van Harmelen. "Knowledge Storage Reports". MUHAI Deliverable 1.3 (2023)
- **I. Blin**, C. Santagiustina, L. Stork, L. Spillner, F. van Harmelen. "Social Inequality Observatory". MUHAI Deliverable 3.3 (2023)
- **I. Blin**. "Building a French Revolution Narrative from Wikidata". Semantic Techniques for Narrative-Based Understanding. (Sem4NBU@IJCAI-ECAI 2022)
- **I. Blin**. "Building narrative structures from knowledge graphs". European Semantic Web Conference. (ESWC 2022, **best doctoral consortium paper award**)
- R. van Trijp, **I. Blin**. "Narratives in Historical Sciences". MUHAI Deliverable 1.1 (2022)

Additional education

Advanced course on AI on Human Centered AI

Humane AI

Topics: Social AI, Ethical AI, Cognitive AI, Explainable AI, Learning and Reasoning

Berlin

October 2021

International Semantic Web Research Summer School

Bertinoro International Center for Informatics

Topics: Knowledge Graphs (Querying, Reasoning, Embeddings), ML, NLP

Bertinoro

July 2022

Teaching

- Student supervision
 - Alkim Belevi, Evy Beijen, Mona Borth, Celeste Tacconi (2024, Digital Humanities Course)
 - Laura Brongers (2023, MSc VU)

Talks

- SciencesPo Medialab Seminar (December 2024, invited)
- EKAW 2024 (November 2024, Structured Representations for Narratives, oral)

- EKAU 2024 (November 2024, Living Meta-Reviews, demo and poster)
- EKAU 2024 (November 2024, Living Meta-Reviews for the MUHAI Tutorial, demo)
- &inCSL (February 2024, invited)
- K-CAP 2023 (December 2023, OKG, oral)
- Workshop on data modelling and ontologies of narrative and fiction (July 2023, invited)
- Sem4NBU@IJCAI-ECAI 2022 (July 2022, French Revolution Narrative, online)
- ESWC 2022 (May 2022, Narrative Structures from KG, oral)
- &inCSL (April 2022, invited)

Community Involvement and Miscellaneous

- Participated in the last event for the EU Project MUHAI: the MUHAI tutorial at EKAU 2024.
- **Co-organised** the SEMMES workshop at ESWC 2024. Tasks: Proposal writing, program organisation, reviewing member.
- Reviewing
 - Conferences: ISWC 2024 (P&D), GeNeSy 2024
- Sub-reviewing
 - Conferences: IJCAI 2024, ESWC 2023, EKAU 2022, ISWC 2022