

Sarah Shoilee

Contact

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The Netherlands

linkedin sarahshoilee
github shoilee

Programming

Python ★★★★★
advanced
C/C++ ★★★★★
advanced
Java ★★★★★
advanced
SPaQL ★★★★★
advanced
R ★★★★★
intermediate
LaTeX ★★★★★
intermediate

Research Interest

- ◆ Linked Open Data
- ◆ Entity Linking
- ◆ Knowledge Modelling
- ◆ Knowledge Discovery
- ◆ Digital Humanities

Languages

Bengali Native
English Proficient
Hindi Independent
Dutch Basic

Summary

Sarah is a Computer Science Ph.D. candidate at Vrije Universiteit Amsterdam, where she is investigating the use of latest machine learning and semantic web technologies for Knowledge Discovery in Colonial Heritage Objects Database. With a Masters in Artificial Intelligence from Katholieke Universiteit Leuven and solid background in Computer Science, her current research interest includes Digital Humanities, Knowledge Graph and use of Graph Embedding Techniques.

Education

- 2021–going **PhD** in Computer Science Vrije Universiteit Amsterdam, Amsterdam, the Netherlands
Project: Pressing Matter – Ownership, Value and the Question of Colonial Heritage in Museums
- Promoter: Prof. Dr. Jacco van Ossenbruggen & Prof. Dr. Susan Legêne
 - Co-promoter: Dr. Victor De Boer
- 2018–2020 **Advanced Masters** in Artificial Intelligence Katholieke Universiteit Leuven, Leuven, Belgium
Specialization: Big Data Analytics
- Thesis: Knowledge Discovery on Spreadsheet using Semantic Information
 - Thesis Supervisor: Prof. Dr. Luc De Raedt
- 2016–2017 **Masters** on Computer Science and Engineering North South University, Dhaka, Bangladesh
Summa Cum Laude
- 2012–2016 **Bachelor** Computer Science and Engineering North South University, Dhaka, Bangladesh
Summa Cum Fructu

Summer School

- July'22 **International Semantic Web Research Summer School** Bertinoro International Center for Informatics, Bertinoro, Italy
- May'18 **Research Methods and Approaches to Text Entry and Other Interaction Techniques** IIT Bombay, Mumbai, India

Pre-PhD Research Experience (Interdisciplinary)

- 2020 **UX Research Trainee (Feb-Jun)** Hogeschool Van Amsterdam, Amsterdam, Netherlands
Project: Development of an inspiring and explainable digital platform to offer improvement and maintainability of a healthy lifestyle with help of AI (*collaboration with TNO*)
Supervisor: Dr. Emmanuelle Beauxis Aussalet & AbdelRahman Hassan
- Designed web interface that explains the AI health recommendations to make it more actionable for the end user (co-creation)
 - Designed, conducted and analysed 3 user studies to understand acceptability and satisfiability of the proposed system.
- 2017-2018 **Research Assistant** North South University, Dhaka, Bangladesh
Project: Gender Research under Google's Next Billion Users Initiative
Supervisor: Dr. Nova Ahmed & Dr. Nithya Sambasivan
- Conducted 8 focused group interviews, leading 3 of them
 - Projected solution through qualitative analysis which has the potential to increase google product usage by 10% among tech-users from Bangladesh
- Project:** Mobile Application for Breast Cancer Awareness
Supervisor: Dr. Nova Ahmed
- Designed user interface which increased user satisfaction raising by 60%
 - Performed user acceptance feasibility study that looked at sustainable solution from a cost, quality and technological perspective.

Publication

Shoilee, S.B.A., de Boer, V., van Ossenbruggen, J. (2024). A Framework for Evaluating Entity Alignment Impact on Downstream Knowledge Discovery. 24th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2024). Just Accepted (September 2024).

de Boer, V. and **Shoilee, S.B.A.**. (2024). Linked Open Data for Cultural Heritage. The Palgrave Encyclopedia of Cultural Heritage and Conflict. Just Accepted (Sep 2024).

Sartini, B., **Shoilee, S.B.A.**, Libbi, C. A., de Boer, V. 2024. Multivocal Exhibition: Exploring Cultural Perspectives through User-Curated Art Exhibitions. J. Comput. Cult. Herit. Just Accepted (July 2024). <https://doi.org/10.1145/3679020>

Shoilee, S.B.A., de Boer, V., van Ossenbruggen, J. (2023). Polyvocal knowledge modelling for ethnographic heritage object provenance. In: Knowledge Graphs: Semantics, Machine Learning, and Languages vol. 56, pp. 127–143. IOS Press, Leipzig, Germany.

Shoilee, S. B. A. (2022). "Knowledge Discovery for Provenance Research on Colonial Heritage Objects". In Proceedings of the Doctoral Consortium at ISWC 2022 co-located with 21st International Semantic Web Conference (ISWC 2022). Hangzhou, China. Hartig, O. & Seneviratne, O. (eds.). CEUR-WS.org, 10 p. (CEUR Workshop Proceedings; vol. 3165).

Islam, F., **Shoilee, S. B. A.**, Shams, M., Rahman, R (2017). "Potential Risk Factor Analysis and Risk Prediction System for Stroke Using Fuzzy Logic". In: *Artificial Intelligence Trends in Intelligent Systems. CSOC2017. Advances in Intelligent Systems and Computing*. Vol.573. Springer, Cham, pp.262–272.

Reza, T. , **Shoilee, S.B.A.**, Akhand, S.M., Khan, M, M (2017). "Development of android based pulse monitoring system". In: *Proceedings of the 2017 Second IEEE International Conference on Electrical, Computer and Communication Technologies (icecct2017)*. Tamil Nadu, India: IEEE, pp.1428–1434.

Ahmed, N., Iftekhar, L., Ahmed, S., Rahman, R., Reza, T., **Shoilee, S.B.A.**, and Choudhury, C. F. (2015). "Bap re Bap!: Driving Experiences through Multimodal Unruly Traffic on Bumpy Roads". In *Proceedings of the 2015 Annual Symposium on Computing for Development (DEV '15)*. ACM, New York, NY, USA, pp. 63-64.

Conference Participation

Sep'24	SEMANTiCS Conference 2024	Amsterdam, the Netherlands
Jun'24	Digital Humanities BeNeLux 2024	Leuven, Belgium
Sep'23	SEMANTiCS Conference 2023	Leipzig, Germany
Oct'22	The 21st International Semantic Web Conference (ISWC 2022)	virtual, Hangzhou, China
Jul'22	Digital Humanities 2022 (DH 2022)	virtual, Tokyo, Japan
Sep'21	SEMANTiCS Conference 2021	Amsterdam, the Netherlands
Feb'17	Second IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT 2017)	SVS College of Engineering, Coimbatore, Tamil Nadu, India