

Rasha Hendawi

EDUCATION

North Dakota State University , Fargo, ND	August 2024
Ph.D. in Computer Science – Artificial Intelligence, GPA: 4.0/4.0	
Thesis: "Using Semantic Knowledge to Enhance Healthcare"	
Yarmouk University , Irbid, Jordan	
Bachelor of Science in Computer Science, GPA: 87.7 /100	June 2005
Tawjihi	
Science Stream, GPA 91.7	August 2001

RESEARCH EXPERIENCE

North Dakota State University , Fargo, ND	
Research Assistant (with Prof. Juan Li)	August 2019-July 2024

TEACHING EXPERIENCE

Head of Information Technology Department, National University College of Technology	October 2024-September 2026
Pearson BTEC Higher Nationals – Computing and Digital Technologies program	
Instructor, North Dakota State University, Fargo, ND	August 2019-June 2024

PUBLICATIONS

1. **Hendawi, R.**, Li, J., & Alian, S. (2021). ADDietCoach: A Personalized Virtual Diet Coach for Alzheimer's Disease. *International Journal of E-Health and Medical Communications (IJEHMC)*, 12(6), 1-18. <http://doi.org/10.4018/IJEHMC.20211101.0a6>. 2021
2. Li, Juan, **Hendawi, Rasha**, Pandey, Vikram, Alenezi, Rafa, Wang, Xin, Xie, Bo, & Tao, Cui. Development and Evaluation of ADCareOnto - an Ontology for Personalized Home Care for Persons with Alzheimer's Disease. 2020 IEEE International Conference on E-health Networking, Application & Services (HealthCom), <https://par.nsf.gov/biblio/10253476>. <https://doi.org/10.1109/HEALTHCOM49281.2021.9398979>. 2021
3. **Hendawi, R.**, Alian, S., & Li, J. (2022). A Smart Mobile App to Simplify Medical Documents and Improve Health Literacy: System Design and Feasibility Validation. *JMIR Form Res* 2022;6(4):E35069 <https://formative.jmir.org/2022/4/E35069>, 6(4), e35069. <https://doi.org/10.2196/35069>. 2022
4. **Hendawi R**, Li J, Roy S. "A Mobile App That Addresses Interpretability Challenges in Machine Learning–Based Diabetes Predictions: Survey-Based User Study" *JMIR Form Res* 2023;7:e50328 <https://formative.jmir.org/2023/1/e50328> DOI: [10.2196/50328](https://doi.org/10.2196/50328). 2023
5. Li, Juan, Pandey, Vikram, & **Hendawi, Rasha**. A Blockchain-Based Personal Health Knowledge Graph for Secure Integrated Health Data Management. 2023 IEEE Symposium on Computers and Communications (ISCC), (). Retrieved from <https://par.nsf.gov/biblio/10417040>. 2023
6. Li, Juan, Pandey, Vikram, & **Hendawi, Rasha**. A Blockchain-Based Personal Health Knowledge Graph for Secure Integrated Health Data Management. 2023 IEEE Symposium on Computers and Communications (ISCC), (). Retrieved from <https://par.nsf.gov/biblio/10417040>. 2023
7. **Hendawi, Rasha** Li, Juan. Comprehensive Personal Health Knowledge Graph for Effective Management and Utilization of Personal Health Data. *IEEE AIMHC* Feb 2024
8. Sarani Rad F, **Hendawi R**, Yang X, Li J. Personalized Diabetes Management with Digital Twins: A Patient-Centric Knowledge Graph Approach. *Journal of Personalized Medicine*. 2024; 14(4):359. <https://doi.org/10.3390/jpm14040359>. 2024
9. **Hendawi, Rasha**, Shadi Alian Li, Juan. "Breaking Down Barriers: Empowering Diabetes Patients with User-Friendly Medical Explanations". 10.1109/ICICS63486.2024.10638283. 2024

PRESENTATIONS

1. Presented "Development and Evaluation of ADCareOnto - an Ontology for Personalized Home Care for Persons with Alzheimer's Disease" in the 2020 IEEE International Conference on E-health Networking, Application & Services (HEALTHCOM), Shenzhen, China, December 12 - 15, 2020.

2. Presented "Comprehensive Personal Health Knowledge Graph for Effective Management and Utilization of Personal Health Data" in the 2024 IEEE international AIMHC conference February 5-7, 2024, California, USA.
3. Presented "Breaking Down Barriers: Empowering Diabetes Patients with User-Friendly Medical Explanations". in ICICS2024 The 15th International Conference on Information and Communication Systems, Irbid, Jordan, August 2024.
4. "Personalized Diabetes Management with Digital Twins: A Patient-Centric Knowledge Graph Approach" (<https://www.mdpi.com/2075-4426/14/4/359>) has been selected as the winner of the JPM Best Paper Awards.