

Garrik A. Hoyt

Teaching Assistant

gah223@lehigh.edu

<https://www.linkedin.com/in/garrikh>

EDUCATION	Lehigh University Ph.D., Computer Science, Start Date: January 2024 New York City College of Technology Major: Computer Systems Technology - Software Development Bachelor of Technology, summa cum laude, June 2020	Bethlehem, PA Brooklyn, NY
JOURNAL ARTICLES	[1] G. Hoyt, S. Adegboyega, G. Constantouris, and P. Basu. (2024). Study of the impact of introducing a multimedia learning tool in podiatric medical courses. <i>J Foot Ankle Res</i> , 17: e12018. https://doi.org/10.1002/jfa2.12018 . <i>Editor's Choice</i> .	
JOURNAL ARTICLES IN REVIEW	[2] G. Hoyt, C. Bakshi, and P. Basu. Effect of integration of audio-visual learning resources in a pre-clinical infectious disease course. Submitted to: <i>Journal of Medical Internet Research</i> . https://doi.org/10.2196/preprints.55206 [3] A. Cho, K. Higuchi, G.A. Hoyt, M.A. Kosinski, and P. Basu. Effect of geographical disparities in the presence of microbial species in diabetic foot infection: A systematic review and meta-analysis. In preparation: <i>Journal of American Podiatric Medical Association</i> .	
CONFERENCE POSTERS (ABSTRACT-REVIEWED)	[4] A. Cho, K. Higuchi, G.A. Hoyt, M.A. Kosinski, and P. Basu. Improvement of therapeutic guidance using geographical diversity of organisms causing diabetic foot infections and associated antibiotic resistance patterns in the United States. <i>Proceedings of Northeast Association of Clinical Microbiology and Infectious Diseases 2023 Annual Meeting</i> , Sept. 2023. Lowell, MA. [5] K. Higuchi, A. Cho, G.A. Hoyt, M.A. Kosinski, and P. Basu. Effect of geographical disparities in the presence of microbial species in diabetic foot infection: A meta-analysis. Abstract VP3, <i>Proceedings of Diabetic Foot Conference 2023 Annual Conference of the American Limb Preservation Society</i> , Sept. 2023. Anaheim, CA. [6] G. Hoyt, E.N. Hulland, M.S. Majumder, and T. McAndrew. A data-driven Bayesian approach to seasonal influenza forecasting: Aggregating social signals and epidemiological data. <i>Proceedings of the DIMACS 2024 Workshop on Forecasting</i> , Oct. 2024. Piscataway, NJ. [7] G. Hoyt, E.N. Hulland, M.S. Majumder, and T. McAndrew. A data-driven Bayesian approach to seasonal influenza forecasting: Aggregating social signals and epidemiological data. <i>Proceedings of the MIDAS Network 2024 Annual Meeting</i> , Nov. 2024. Silver Spring, MD [8] G. Hoyt, N. Chatterjee. Medical Applications of Graph Convolutional Networks Using Electronic Health Records: A Survey. <i>Proceedings of the 39th Indian Engineering Congress</i> , Dec. 2024. Kolkata, India	
EXPERIENCE	Lehigh University Teaching Assistant (2024 - present) <ul style="list-style-type: none">Undergraduate course in applied engineering methods (Fall 2024)Graduate data science course (Summer 2024)Undergraduate data science course (Spring 2024) Research Assistant (2024 - present) <ul style="list-style-type: none">Investigate seasonal influenza forecasting with social signal data [6] Mountantop Guide (Summer 2024) <ul style="list-style-type: none">Guided teams in summer research projects.	Bethlehem, PA Bethlehem, PA Bethlehem, PA

Touro University

New York, NY

Data Scientist (2023-2024)

- Investigated the impact of educational technology resources on learning outcomes [1][2]
- Performed all phases of the CRISP-DM process

Developer (2022-2024)

New York, NY

- Developed and maintained ETL solutions and automated workflows to support data collection, processing, and reporting.
- Collaborated with cross-functional teams to identify data requirements and ensure data accuracy.
- Conducted data analysis and visualization to support performance monitoring and identify opportunities for process improvements.
- Ensured compliance with data privacy and security regulations.

New York College of Podiatric Medicine & Foot Clinic of New York

IT Project Manager & Support Specialist (2019-2022)

New York, NY

- Designed, planned, and executed the implementation of a 150-device VoIP system for the college and clinic.
- Managed the migration of the Student Information System and Learning Management System to new platforms, resulting in on-time and within-budget completion.
- Led the Student Services staff through a successful transition to remote work. Provided guidance and support to team members to ensure timely completion of project deliverables, maintaining high levels of productivity and team morale.
- Conducted thorough data validation and analysis to ensure data accuracy and consistency.
- Managed process automation development. Presented findings to stakeholders and provided recommendations for process improvements.
- Developed an automated digital insurance verification application, saving over 500 pieces of paper in the first month of deployment while ensuring data accuracy and consistency.
- Developed Power Automate workflows for employee onboarding, employee key requests, and the student separation process.
- Created flowcharts and swim lane diagrams to communicate workflows to nontechnical stakeholders.
- Provided ongoing technical support to ensure high-quality service delivery and reliability.

AWARDS**Dean's List**, New York City College of Technology

2017, 2018, 2019, 2020

Journal of Foot and Ankle Research Editor's Choice [1]**SKILLS****Data Analysis:** Biostatistics, meta-analysis, inferential and predictive analysis, data visualization and reporting, feature engineering, CRISP-DM, study design**Programming:** R, Python, C/C++, Java**Databases:** MS SQL Server, MySQL, MongoDB, Oracle DB**Machine Learning:** Keras, TensorFlow, SKLearn**Applications:** Visual Studio/VS Code, RStudio, Jupyter, MATLAB, Tableau, Eclipse, GRETl**LANGUAGES****English:** Native language**Spanish:** Intermediate listener, intermediate reader and writer, novice speaker**OTHER****Hobbies & Interests:** Cycling, poetry, reading, basketball**Citizenship:** USA