

# Garrik A. Hoyt

Teaching Assistant

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EDUCATION	<b>Lehigh University</b> Ph.D., Computer Science, Start Date: January 2024	Bethlehem, PA
	<b>New York City College of Technology</b> Major: Computer Systems Technology - Software Development Bachelor of Technology, summa cum laude, June 2020	Brooklyn, NY
JOURNAL ARTICLES	[1] G. Hoyt, S. Adegboyega, G. Constantouris, and P. Basu. (2024). <b>Study of the impact of introducing a multimedia learning tool in podiatric medical courses.</b> <i>J Foot Ankle Res</i> , 17: e12018. <a href="https://doi.org/10.1002/jfa2.12018">https://doi.org/10.1002/jfa2.12018</a> . <i>Editor's Choice</i> .	
JOURNAL ARTICLES IN REVIEW	[2] G. Hoyt, C. Bakshi, and P. Basu. <b>Effect of integration of audio-visual learning resources in a pre-clinical infectious disease course.</b> Submitted to: <i>Journal of Medical Internet Research</i> . <a href="https://doi.org/10.2196/preprints.55206">https://doi.org/10.2196/preprints.55206</a>	
	[3] A. Cho, K. Higuchi, G.A. Hoyt, M.A. Kosinski, and P. Basu. <b>Effect of geographical disparities in the presence of microbial species in diabetic foot infection: A systematic review and meta-analysis.</b> 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. <b>Improvement of therapeutic guidance using geographical diversity of organisms causing diabetic foot infections and associated antibiotic resistance patterns in the United States.</b> <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. <b>Effect of geographical disparities in the presence of microbial species in diabetic foot infection: A meta-analysis.</b> 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. <b>A data-driven Bayesian approach to seasonal influenza forecasting: Aggregating social signals and epidemiological data.</b> <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. <b>A data-driven Bayesian approach to seasonal influenza forecasting: Aggregating social signals and epidemiological data.</b> <i>Proceedings of the MIDAS Network 2024 Annual Meeting</i> , Nov. 2024. Silver Spring, MD	
	[8] G. Hoyt, N. Chatterjee. <b>Medical Applications of Graph Convolutional Networks Using Electronic Health Records: A Survey.</b> <i>Proceedings of the 39th Indian Engineering Congress</i> , Dec. 2024. Kolkata, India	
EXPERIENCE	<b>Lehigh University</b> Teaching Assistant (2024 - present) <ul style="list-style-type: none"><li>Undergraduate course in applied engineering methods (Fall 2024)</li><li>Graduate data science course (Summer 2024)</li><li>Undergraduate data science course (Spring 2024)</li></ul> Research Assistant (2024 - present) <ul style="list-style-type: none"><li>Investigate seasonal influenza forecasting with social signal data [6]</li></ul> Mountaintop Guide (Summer 2024) <ul style="list-style-type: none"><li>Guided teams in summer research projects.</li></ul>	Bethlehem, PA

<b>Touro University</b>	New York, NY
Data Scientist (2023-2024)	
<ul style="list-style-type: none"> <li>• Investigated the impact of educational technology resources on learning outcomes [1][2]</li> <li>• Performed all phases of the CRISP-DM process</li> </ul>	
Developer (2022-2024)	New York, NY
<ul style="list-style-type: none"> <li>• Developed and maintained ETL solutions and automated workflows to support data collection, processing, and reporting.</li> <li>• Collaborated with cross-functional teams to identify data requirements and ensure data accuracy.</li> <li>• Conducted data analysis and visualization to support performance monitoring and identify opportunities for process improvements.</li> <li>• Ensured compliance with data privacy and security regulations.</li> </ul>	
<b>New York College of Podiatric Medicine &amp; Foot Clinic of New York</b>	
IT Project Manager & Support Specialist (2019-2022)	New York, NY
<ul style="list-style-type: none"> <li>• Designed, planned, and executed the implementation of a 150-device VoIP system for the college and clinic.</li> <li>• Managed the migration of the Student Information System and Learning Management System to new platforms, resulting in on-time and within-budget completion.</li> <li>• 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.</li> <li>• Conducted thorough data validation and analysis to ensure data accuracy and consistency.</li> <li>• Managed process automation development. Presented findings to stakeholders and provided recommendations for process improvements.</li> <li>• 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.</li> <li>• Developed Power Automate workflows for employee onboarding, employee key requests, and the student separation process.</li> <li>• Created flowcharts and swim lane diagrams to communicate workflows to nontechnical stakeholders.</li> <li>• Provided ongoing technical support to ensure high-quality service delivery and reliability.</li> </ul>	
<b>AWARDS</b>	
<b>Dean's List</b> , New York City College of Technology	2017, 2018, 2019, 2020
<b>Journal of Foot and Ankle Research Editor's Choice</b> [1]	
<b>SKILLS</b>	
<b>Data Analysis:</b> Biostatistics, meta-analysis, inferential and predictive analysis, data visualization and reporting, feature engineering, CRISP-DM, study design	
<b>Programming:</b> R, Python, C/C++, Java	
<b>Databases:</b> MS SQL Server, MySQL, MongoDB, Oracle DB	
<b>Machine Learning:</b> Keras, TensorFlow, SKLearn	
<b>Applications:</b> Visual Studio/VS Code, RStudio, Jupyter, MATLAB, Tableau, Eclipse, GRETL	
<b>LANGUAGES</b>	
<b>English:</b> Native language	
<b>Spanish:</b> Intermediate listener, intermediate reader and writer, novice speaker	
<b>OTHER</b>	
<b>Hobbies &amp; Interests:</b> Cycling, poetry, reading, basketball	
<b>Citizenship:</b> USA	