

Garrik A. Hoyt

Research Assistant

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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
ARTICLES	[1] T. McAndrew, A. A. Lover, G. Hoyt , and M. S. Majumder (2025). <i>When data disappear: public health pays as US policy strays.</i> The Lancet Digital Health, 100874. https://doi.org/10.1016/j.landig.2025.100874 [2] G. Hoyt , C. S. Bakshi, and P. Basu (2025). <i>Integration of an Audiovisual Learning Resource in a Podiatric Medical Infectious Disease Course: Multiple Cohort Pilot Study.</i> JMIR Medical Education, 11:e55206, 2025. https://doi.org/10.2196/55206 [3] G. Hoyt , S. Adegboyega, G. Constantouris, and P. Basu (2024). <i>Study of the impact of introducing a multimedia learning tool in podiatric medical courses.</i> J Foot Ankle Res, 17: e12018. https://doi.org/10.1002/jfa2.12018 . Editor's Choice. [4] G. Hoyt , E. Bergren, G. String, and T. McAndrew. <i>Beyond Traditional Surveillance: Harnessing Expert Knowledge for Public Health Forecasting.</i> Under Review: American Journal of Public Health. [5] G. Hoyt , N. Chatterjee, F. Battaglia, and P. Basu. <i>Medical Applications of Graph Convolutional Networks Using Electronic Health Records: A Survey.</i> arXiv:2502.09781 [cs.LG], 2025. https://doi.org/10.48550/arXiv.2502.09781 . Under review: Journal of Healthcare Management [6] A. Cho, K. Higuchi, G. Hoyt , M. A. Kosinski, and P. Basu. <i>Effect of geographical disparities in the presence of microbial species in diabetic foot infection: A systematic review and meta-analysis.</i> Under review: Journal of American Podiatric Medical Association.	
POSTERS	[7] A. Subedi, G. Hoyt , N. Chatterjee, and T. McAndrew. <i>Fluformer: Adapting Foundational Time-Series Transformers for Influenza Forecasting.</i> Proceedings of the MIDAS Network 2025 Annual Meeting, Nov. 2025. Bethesda, MD [8] G. Hoyt , E. N. Hulland, M. S. Majumder, and T. McAndrew. <i>A data-driven Bayesian approach to seasonal influenza forecasting: Aggregating social signals and epidemiological data.</i> Proceedings of the DIMACS 2024 Workshop on Forecasting, Oct. 2024. Piscataway, NJ. Proceedings of the MIDAS Network 2024 Annual Meeting, Nov. 2024. Silver Spring, MD	
INSTRUCTIONAL & MENTORSHIP EXPERIENCE	Lehigh University Lead Instructor (Spring 2026) <ul style="list-style-type: none">• Design and deliver two-day workshop on using LLM-based tools for research• Expecting 50 participants (graduate students, postdocs, and faculty) from the College of Engineering Research Supervisor (Fall 2025) <ul style="list-style-type: none">• Supervised two graduate students on research that resulted in a conference poster [7] Lead Instructor (Summer 2025) <ul style="list-style-type: none">• Designed and delivered three-day workshop on using LLM-based tools for research• 15-20 daily participants consisting of Computer Science graduate students and faculty Teaching Assistant (2024 - 2025) <ul style="list-style-type: none">• Introduction to Data Science (Summer 2025)	Bethlehem, PA

	<ul style="list-style-type: none"> • Applied Engineering Computer Methods (Spring 2024) • Applied Engineering Computer Methods (Fall 2024) • Introduction to Data Science (Summer 2024) • Introduction to Data Science (Spring 2024) <p>Graduate Student Advisor (Spring 2025)</p> <ul style="list-style-type: none"> • Guided student to acceptance in Lehigh's Catastrophe Modeling Master's program <p>Undergraduate Research Supervisor (Spring 2025)</p> <ul style="list-style-type: none"> • Supervised an undergraduate student at Plaksha University on a one-semester research project <p>Mountaintop Guide (Summer 2024)</p> <ul style="list-style-type: none"> • Guided teams in summer research projects. 	
RESEARCH EXPERIENCE	<p>Lehigh University Bethlehem, PA</p> <p>Research Assistant (2024 - present)</p> <ul style="list-style-type: none"> • Investigate seasonal influenza forecasting [1] [4] [7] [8]. <p>Touro University New York, NY</p> <p>Data Scientist (2023-2024)</p> <ul style="list-style-type: none"> • Investigated the impact of educational technology resources on learning outcomes [2][3]. • Performed all phases of the CRISP-DM process. 	
PROFESSIONAL EXPERIENCE	<p>Touro University New York, NY</p> <p>Developer (2022-2024)</p> <ul style="list-style-type: none"> • Developed and maintained ETL solutions and automated workflows. • Conducted data analysis and visualization. • Ensured compliance with data privacy and security regulations. <p>New York College of Podiatric Medicine & Foot Clinic of New York New York, NY</p> <p>IT Project Manager & Support Specialist (2019-2022)</p> <ul style="list-style-type: none"> • Designed, planned, and executed deployment of a 150-device VoIP system for the college and clinic. • Managed the migration of the Student Information System and Learning Management System. • Led the Student Services staff through a successful transition to remote work. • Conducted thorough data validation and analysis to ensure data accuracy and consistency. • Managed process automation development. • Developed an automated digital insurance verification application. • Developed automated workflows for employee onboarding, key requests, and student separation. • Created flowcharts and swim lane diagrams to communicate workflows to nontechnical stakeholders. 	
SERVICE	Reviewed submissions for CIKM (2024)	
AWARDS	Dean's List , New York City College of Technology	2017, 2018, 2019, 2020
	Journal of Foot and Ankle Research Editor's Choice [3]	2024
SKILLS	<p>Programming: R, Python, C#, Java</p> <p>Databases: MS SQL Server, MySQL, MongoDB, Oracle DB</p> <p>Machine Learning: Transformers, Keras, TensorFlow, SKLearn</p> <p>Applications: Visual Studio/VS Code, R Studio, Jupyter, Docker, MATLAB, Tableau, Eclipse, GRETL</p>	
OTHER	<p>English: Native language</p> <p>Spanish: Intermediate listener, intermediate reader and writer, novice speaker</p> <p>Citizenship: USA</p>	