

Alex Godwin, PhD

ASSISTANT PROFESSOR · COMPUTER SCIENCE

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Education

Georgia Institute of Technology

Atlanta, GA

PHD HUMAN-CENTERED COMPUTING

Aug. 2013 - July 2018

- Advisor: Dr. John Stasko
- Graphics, Visualization, and Usability Center - Information Interfaces Lab (GVU-ii)
- Thesis: Sketching Mental Maps of Urban Spaces for the Visual Analysis of Spatial Data

The University of North Carolina at Charlotte

Charlotte, NC

MS COMPUTER SCIENCE

Dec. 2008

- Advisor: Dr. Robert Kosara
- Ribarsky Center for Visual Analytics (Vis Center)
- Thesis: Time Web: Comparing Unevenly-Spaced Time Sequences using Social Network Analysis of Local Alignment Pairs

The University of North Carolina at Charlotte

Charlotte, NC

BS COMPUTER SCIENCE

Dec. 2006

- Undergraduate Research Advisor: Dr. Tiffany Barnes
- Future Computing Lab (FCL)
- Minor in Cognitive Science
- Magna Cum Laude

Professional Experience

- 2018-Now **Assistant Professor**, American University, Washington, DC
- 2013-2018 **Graduate Research Assistant**, Information Interfaces Lab, Georgia Tech
- 2014 **Summer Research Fellow**, Data Science for Social Good (DSSG), Georgia Institute of Technology, (Georgia Tech)
- 2009-2013 **Research Scientist III**, Charles River Analytics, Cambridge, MA
- 2008 **Summer Research Fellow**, Augmented and Virtual Reality Lab, Naval Research Lab, Washington, DC
- 2008 **Graduate Research Assistant**, Ribarsky Vis Center, The University of North Carolina at Charlotte, (UNC Charlotte)
- 2007 **Adjunct Instructor**, Simulation and Game Development, Central Piedmont Community College
- 2006 **Undergraduate Research Fellow**, Students and Technology in Academia, Research, and Service (STARS), UNC Charlotte
- 2006 **Summer Research Fellow**, NSF Research Experiences for Undergraduates, Computer Science, UNC Charlotte
- 2005-2006 **Undergrad Research Assistant**, Computer Science, Future Computing Lab, UNC Charlotte

Publications

PEER-REVIEWED CONFERENCE PAPERS

Corizzo, Roberto, Alex Godwin, Massimiliano Altieri, and Michelangelo Ceci (2025). “Visual Analytics for Explainable AI with Spatio-Temporal Data: A Comparative Study”. In: *International Joint Conference on Neural Networks*. International Neural Network Society. Rome, Italy. URL: <https://2025.ijcnn.org/>.

[Accepted - To Appear].

Godwin, Alex, Jasmine C Foriest, Mia Bottcher, Gretchen Baas, Michael Tsai, and Daniel T Wu (2025). “Interaction Techniques for Providing Sensitive Location Data of Interpersonal Violence with User-Defined Privacy Preservation”. In: *Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems*. CHI '25. Yokohama, Japan: Association for Computing Machinery. ISBN: 9798400713941. DOI: [10.1145/3706598.3714136](https://doi.org/10.1145/3706598.3714136).

[Honorable Mention | 24.9% acceptance rate].

- Godwin, Alex (2022). "Paths Through Spatial Networks". In: *2022 IEEE Visualization and Visual Analytics (VIS)*. Oklahoma City, OK, pp. 31–34. doi: [10.1109/VIS54862.2022.00015](https://doi.org/10.1109/VIS54862.2022.00015).
- Goodwin, Sarah, Sebastian Meier, Lyn Bartram, Alex Godwin, Till Nagel, and Marian Dörk (2021). "Unravelling the human perspective and considerations for urban data visualization". In: *2021 IEEE 14th Pacific Visualization Symposium (PacificVis)*. IEEE, pp. 126–130. doi: [10.1109/PacificVis52677.2021.00024](https://doi.org/10.1109/PacificVis52677.2021.00024).
- Godwin, Alex and John Stasko (2017). "HotSketch: Drawing Police Patrol Routes among Spatiotemporal Crime Hotspots". In: *Proceedings of the 50th Hawaii International Conference on System Sciences (HICSS)*. doi: <http://dx.doi.org/10.24251/HICSS.2017.164>.
- [Honorable Mention].**
- Godwin, Alex and John T. Stasko (2017). "Nodes, Paths, and Edges: Using Mental Maps to Augment Crime Data Analysis in Urban Spaces". In: *Proceedings of the Eurographics/IEEE VGTC Conference on Visualization (EuroVis 2017): Short Papers*. Ed. by Barbora Kozlikova, Tobias Schreck, and Thomas Wischgoll. The Eurographics Association. ISBN: 978-3-03868-043-7. doi: [10.2312/eurovisshort.20171127](https://doi.org/10.2312/eurovisshort.20171127).
- Godwin, Alex, Yongxin Wang, and John T. Stasko (2017). "TypoTweet maps: characterizing urban areas through typographic social media visualization". In: *Proceedings of the Eurographics/IEEE VGTC Conference on Visualization: Short Papers*. EuroVis '17. Barcelona, Spain: Eurographics Association, pp. 25–29. doi: [10.2312/eurovisshort.20171128](https://doi.org/10.2312/eurovisshort.20171128).
- O'Connell, Katie, Yeji Lee, Firaz Peer, Shawn M. Staudaher, Alex Godwin, Mackenzie Madden, and Ellen W. Zegura (2016). "Making Public Safety Data Accessible in the Westside Atlanta Data Dashboard". In: *CoRR, presented at Bloomberg Data for Good Exchange*. URL: <http://arxiv.org/abs/1609.09756>.
- Kilgore, Ryan, Alex Godwin, Amanda Davis, and Chris Hogan (2013). "A precision information environment (PIE) for emergency responders: Providing collaborative manipulation, role-tailored visualization, and integrated access to heterogeneous data". In: *2013 IEEE International Conference on Technologies for Homeland Security (HST)*. IEEE, pp. 766–771. doi: [10.1109/THS.2013.6699100](https://doi.org/10.1109/THS.2013.6699100).
- Dudzic, Stephanie, Alex Godwin, and Ryan Kilgore (2010). "Visual strategies for enhancing user perception of task relationships in emergency operations centers". In: *Cyber Security, Situation Management, and Impact Assessment II; and Visual Analytics for Homeland Defense and Security II*. Ed. by William J. Tolone, William Ribarsky, John F. Buford, Gabriel Jakobson, and John Erickson. Vol. 7709. International Society for Optics and Photonics. SPIE, 77090W. doi: [10.1117/12.850061](https://doi.org/10.1117/12.850061).
- Godwin, Alex, Remco Chang, Robert Kosara, and William Ribarsky (2008a). "Visual analysis of entity relationships in the Global Terrorism Database". In: *Defense and Security 2008: Special Sessions on Food Safety, Visual Analytics, Resource Restricted Embedded and Sensor Networks, and 3D Imaging and Display*. Ed. by Moon S. Kim, Kaunglin Chao, William J. Tolone, William Ribarsky, Sergey I. Balandin, Bahram Javidi, and Shu-I Tu. Vol. 6983. International Society for Optics and Photonics. SPIE, 69830G. doi: [10.1117/12.778084](https://doi.org/10.1117/12.778084).
- Barnes, Tiffany, Heather Richter, Eve Powell, Amanda Chaffin, and Alex Godwin (2007b). "Game2Learn: building CS1 learning games for retention". In: *SIGCSE Bull.* 39.3, pp. 121–125. ISSN: 0097-8418. doi: [10.1145/1269900.1268821](https://doi.org/10.1145/1269900.1268821).

JOURNAL ARTICLES

- Gephart, Jessica A, Rahul Agrawal Bejarano, Kelvin Gorospe, Alex Godwin, Christopher D Golden, Rosamond L Naylor, Kirsty L Nash, Michael L Pace, and Max Troell (2024). "Globalization of wild capture and farmed aquatic foods". In: *Nature Communications* 15.1, p. 8026. doi: <https://doi.org/10.1038/s41467-024-51965-8>.
- Godwin, Alex, Ryan Kilgore, and Dimitry Kudryavtsev (2011). "Adaptive Skill Rehearsal and Experimentation Environment for Battle field First-Aid Procedure Training". In: *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* 55.1, pp. 2128–2132. doi: [10.1177/1071181311551444](https://doi.org/10.1177/1071181311551444).
- Kilgore, Ryan M. and J. Alex Godwin (2010). "Pictorial Mnemonic-Based Tools for Procedural Training: Application to the Battlefield First-Aid Domain". In: *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* 54.27, pp. 2347–2351. doi: [10.1177/154193121005402727](https://doi.org/10.1177/154193121005402727).

WORKSHOP ABSTRACTS AND SYMPOSIA

- Godwin, Alex (2016). “Let’s play: Design games and other strategies for introducing visualization through active learning”. In: *Pedagogy Data Visualization, IEEE Visualization and Visual Analytics (VIS) Workshop*. URL: <https://vgl.cs.usfca.edu/pdvw/2016/abstracts.html>.
- Chang, Remco, Alex Godwin, Robert Kosara, and William Ribarsky (2009). “Towards a Role of Visualization in Social Modeling.” In: *AAAI Spring Symposium: Technosocial Predictive Analytics*, pp. 8–11. URL: <https://aaai.org/papers/0003-SS09-09-003-towards-a-role-of-visualization-in-social-modeling/>.

POSTERS

- Rosen, Jacob and Alex Godwin (2022). “Visualization for On and Off the Rails: Train Commuting Dashboards for DC”. In: *2022 IEEE Visualization and Visual Analytics (VIS): Posters*. IEEE Computer Society. Oklahoma City, OK. URL: https://virtual.ieeevis.org/year/2022/poster_v-vis-posters-1045.html.
- Zhang, Xiaxue, Alex Godwin, and John Stasko (2017). “Equity Monitor: Visualizing Attributes of Health Inequity in Atlanta”. In: *2017 IEEE Visualization and Visual Analytics (VIS): Posters*. IEEE Computer Society. Phoenix, AZ USA. URL: <https://ieeevis.org/year/2017/info/posters>.
- Godwin, Alex and John Stasko (2015). “Drawing data on maps: Sketch-based spatiotemporal visualization”. In: *2015 IEEE Visualization and Visual Analytics (VIS): Posters*. URL: <https://ieeevis.org/year/2015/info/overview-amp-topics/posters>.
[Honorable Mention Best Poster]
- Godwin, Alex, Anand Sainath, Sanjay Obla Jayakumar, Vivek Nabhi, Sagar Raut, and John Stasko (2014). “Exploring Spatio-Temporal Data as Personal Routes”. In: *2014 IEEE Visualization and Visual Analytics (VIS): Posters*. IEEE Computer Society. Paris, France. URL: <https://ieeevis.org/year/2014/info/overview-amp-topics/accepted-posters>.
- Dudzic, Stephanie, J. Alex Godwin, and Ryan M. Kilgore (2010). “Visualization of temporal relationships within coordinated views”. In: *2010 IEEE Symposium on Visual Analytics Science and Technology: Posters*, pp. 219–220. DOI: [10.1109/VAST.2010.5651617](https://doi.org/10.1109/VAST.2010.5651617).
- Godwin, Alex and Ryan M. Kilgore (2010). “Conveying network features in geospatial battlespace displays”. In: *2010 IEEE Symposium on Visual Analytics Science and Technology: Posters*, pp. 221–222. DOI: [10.1109/VAST.2010.5651192](https://doi.org/10.1109/VAST.2010.5651192).
- Decker, Jonathan, Alex Godwin, Mark A. Livingston, and Denise Royle (2009). “A scalable architecture for visual data exploration”. In: *2009 IEEE Symposium on Visual Analytics Science and Technology: Posters*, pp. 221–222. DOI: [10.1109/VAST.2009.5333451](https://doi.org/10.1109/VAST.2009.5333451).
- Godwin, Alex, Remco Chang, Robert Kosara, and William Ribarsky (2008b). “Visual data mining of unevenly-spaced event sequences”. In: *Interactive Poster in 2008 IEEE Symposium on Visual Analytics Science and Technology*, pp. 187–188. DOI: [10.1109/VAST.2008.4677379](https://doi.org/10.1109/VAST.2008.4677379).

TECHNICAL REPORTS

- Leger, Michelle A., Karin M. Butler, Denis Bueno, Matthew Crepeau, Christopher Cuellar, Michael J. Haas, Timothy Loffredo, Laura E. Matzen, Vivian Nguyen, Geoffrey Reedy, et al. (2018). *Creating an Interprocedural Analyst-Oriented Data Flow Representation for Binary Analysts (CIAO)*. Tech. rep. Sandia National Lab. (SNL-NM), Albuquerque, NM (United States). DOI: [10.2172/1529591](https://doi.org/10.2172/1529591).

Awards, Fellowships, & Grants

2024	[Pending] Advisory Committee , <i>Center for Deep Thought: AI Ethics & Society</i> ; Humanities Research Centers on Artificial Intelligence; National Endowment for the Humanities (NEH)	\$500,000
2024	Co-PI , <i>Explainable AI for Spatio-Temporal Data</i> ; Faculty Mellon Grant; American University College of Arts and Sciences	\$ 3,500
2023	PI , <i>Collecting and Mapping Interpersonal Violence Data while Preserving Privacy</i> ; Faculty Mellon Grant; American University College of Arts and Sciences	\$ 4,000
2021	Co-PI , <i>Collaborative Research: HNDS-I: A global seafood trade network database for sustainable food systems, human health, and nutrition security</i> ; National Science Foundation, Division of Behavioral and Cognitive Sciences	\$ 785,240
2017	Co-author , <i>Research Experience for Undergraduates (REU) Site: Civic Data Science at Georgia Tech</i> ; National Science Foundation Awardee , <i>Travel Grant to IEEE VIS Doctoral Colloquium</i> ; IEEE VIS Awardee , <i>Travel Grant to Worcester Polytechnic Institute (WPI) Faculty Launch Workshop</i> ; Worcester, MA; WPI	\$ 359,961
2013	Awardee , <i>Georgia Institute of Technology President's Fellowship</i> ; Georgia Tech College of Computing	\$ 22,000

Presentations

Spring 2024. *Collecting and Mapping Interpersonal Violence Data while Preserving Privacy*. Invited talk: Washington College of Law International Human Rights Law Clinic, Washington, DC.

Fall 2024. *Collecting and Mapping Interpersonal Violence Data while Preserving Privacy*. Invited talk: US Cardiff Model National Network, Virtual Conference.

Spring 2023. *Collecting and Mapping Interpersonal Violence Data while Preserving Privacy*. Invited talk: US Cardiff Model National Network, Virtual Conference.

Spring 2022. *Detecting Plagiarism in Student Submitted Code*. Center for Teaching, Research, and Learning, American University, Washington, DC.

Spring 2022. *Human Rights and Technology*. Invited talk: Washington College of Law International Human Rights Clinic, Washington, DC.

Spring 2020. *Project Courses in Computer Science*. Invited talk: Washington College of Law International Human Rights Clinic, Washington, DC.

Spring 2019. *Intro to Web Applications*. Student Hackathon, Woodrow Wilson High School, Washington, DC.

Spring 2019. *GitHub and Version Control Systems*. University Workshop, American University, Washington, DC.

Teaching Experience

AMERICAN UNIVERSITY

Term	Course, Position	Enrollment
2025F	CSC 450/650 - Software Engineering , Instructor (Planned)	
	CSC 484/684 - Legal/Ethical Issues in Computing , Instructor (Planned)	
2025S	CSC 208 - Introduction to Computer Science II , Instructor/Coordinator	24
	CSC 484/684 - Legal/Ethical Issues in Computing , Instructor	24
2024F	CSC 450/650 - Software Engineering , Instructor	28
	CSC 208 - Introduction to Computer Science II , Instructor/Coordinator	18
2024S	CSC 208 - Introduction to Computer Science II , Instructor/Coordinator	30
	CSC 485/685 - Introduction to Information Visualization , Instructor	24

2023F	CSC 208 - Introduction to Computer Science II , Instructor/Coordinator	23
	CSC 208 - Introduction to Computer Science II , Instructor/Coordinator	22
2023S	Advanced Information Visualization of Public Transportation Networks , Independent Study Instructor	1
2022F	CSC 208 - Introduction to Computer Science II , Instructor/Coordinator	21
	CSC 208 - Introduction to Computer Science II , Instructor/Coordinator	21
	Analysis of Advanced Datasets , Independent Study Instructor	1
2022S	CSC 484/684 - Legal/Ethical Issues in Computing , Instructor	21
	CSC 485/685 - Introduction to Information Visualization , Instructor	14
	HNRS 398 - Honors Challenge Course , Instructor	4
2021F	CSC 450/650 - Software Engineering , Instructor	20
	CSC 208 - Introduction to Computer Science II , Instructor/Coordinator	20
2021S	CSC 484/684 - Legal/Ethical Issues in Computing , Instructor/Coordinator	18
	CSC 485/685 - Introduction to Information Visualization , Instructor	14
2020F	CSC 450/650 - Software Engineering , Instructor	25
	CSC 208 - Introduction to Computer Science II , Instructor/Coordinator	33
2020S	CSC 496/696 - CS Topics: Introduction to Information Visualization , Instructor	11
	Spatial Data Structures , Independent Study Instructor	1
	CSC 484/684 - Legal/Ethical Issues in Computing , Co-developer of AU Core Course Proposal in Written and Communication Literacy	
2019F	CSC 450/650 - Software Engineering , Instructor	17
	CSC 281 - Introduction to Computer Science II , Instructor/Coordinator	25
	HNRS 398 - Honors Challenge Course , Instructor	4
2019S	CSC 281 - Introduction to Computer Science II , Instructor	19
	CSC 496/696 - CS Topics: Introduction to Information Visualization , Instructor	13
	CSC 604 - Advanced Introduction to Coding , Course Proposal Co-Developer	
	Domestic Violence Survey Map , Independent Study Instructor	1
	CSC 281 - Introduction to Computer Science II , Co-developer of AU Core Course Proposal in Quantitative Literacy	
2018F	CSC 281 - Introduction to Computer Science II , Instructor	22

GEORGIA INSTITUTE OF TECHNOLOGY

2017F	CS 4001 - Computing, Society, and Professionalism , Instructor
2017Sum	CS 4460 - Information Visualization , Instructor
2015Sum	CS 4460 - Information Visualization , Instructor
2014F	CS 7450 - Information Visualization , Teaching Assistant

CENTRAL PIEDMONT COMMUNITY COLLEGE

2007S	SGD 113 - Simulation and Game Programming , Instructor
	SGD 213 - Simulation and Game Programming II , Instructor
	SGD 125 - Artificial Intelligence for Simulation and Games , Instructor
	SGD 126 - Engine Design for Simulation and Games , Instructor

Mentoring

2024-2025	Julien Halgan , Associate Underwriter at Arch Insurance Group	<i>Lab Assistant</i>
2023	Jacob Rosen , Legal Technology and Training Specialist at High Swartz, LLP	<i>Lab Assistant</i>
2022	Gianna Williams , PhD Student at Northeastern University	<i>Project Advisee</i>
2022	Ian Whitehouse , PhD Student at University of Maryland	<i>Capstone</i>
2021-2022	Emily Yuan , CS MS Student at University of Michigan	<i>Lab Assistant</i>
2020-2022	Gillian Benjano , Lead Math Game Designer at PlayStudios	<i>Lab Assistant</i>
2020-2022	Elise Hooker , Machine Learning Engineer at Booz Allen Hamilton	<i>Lab Assistant</i>
2020-2022	Lillian Hornung , Software Engineer and Senior Analyst at Accenture	<i>Lab Assistant</i>
2019-2021	Isabella Sims , Senior Software Engineer at Deloitte	<i>Lab Assistant</i>
2019-2020	Parker Brotman , Quantitative Analyst at PNC Bank	<i>Lab Assistant</i>
2019-2020	Sam Doran , CTO and Co-Founder of Backhouse	<i>Lab Assistant</i>
2019-2020	Lily K. Donaldson , PhD Student at Rensselaer Polytechnic Institute	<i>Capstone</i>

Service

INTERNAL

2024S	Term Faculty Renewal Committee , Committee Member	<i>Department</i>
2023F-Now	Quantitative Literacy Committee , Chair	<i>University</i>
2022	Hiring Committee , Member	<i>Department</i>
2021	Faculty Working Group on Experiential Learning , Faculty Fellow	<i>University</i>
2021-2022	Howard Hughes Medical Institute (HHMI) “Driving Change” Faculty Learning Community Group , Faculty Fellow	<i>University</i>
2021F-Now	Department Listserv , Creator/Lead	<i>Department</i>
2020F-Now	Teaching Assistant Program , Creator/Lead	<i>Department</i>
2020-Now	Quantitative Literacy Committee , Member	<i>University</i>
2019S-Now	Introductory Course Coordinator for CS I & II , Lead	<i>Department</i>
2019S-Now	Undergraduate Curriculum Committee , Committee Member	<i>Department</i>

EXTERNAL

2024	Energy Vis at IEEE VIS , Program Committee	<i>St. Pete Beach, Florida</i>
2023	Energy Vis at IEEE VIS , Program Committee	<i>Melbourne, Australia</i>
2022	City Vis Workshop at IEEE VIS , Program Committee	<i>Oklahoma City, OK</i>
2021	Energy Vis at ACM e-Energy 2021 , Program Committee	<i>Torino, Italy</i>
2020	Energy Vis at ACM e-Energy 2021 , Program Committee	<i>Virtual</i>
2020	City Vis Workshop at IEEE VIS , Program Committee	<i>Virtual</i>
2019	City Vis Workshop at IEEE VIS , Chair	<i>Vancouver, Canada</i>

PEER REVIEWER

- SIGCHI Conference on Human Factors in Computing Systems (CHI)
- IEEE Visualization Conference (VIS)
- European Association on Computer Graphics (Eurographics) Working Group on Data Visualization Annual Conference (EuroVIS)
- Transactions on Visualization and Computer Graphics (TVCG)
- ACM International Conference on Interactive Surfaces and Spaces (ISS)
- ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing (CSCW)
- ACM Symposium on User Interface Software and Technology (UIST)
- IEEE Pacific Visualization Conference (PacificVis)
- Workshop on Energy Data Visualization (EnergyVis)
- Workshop on City Visualization (CityVis)

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery (ACM)

Institute of Electrical and Electronics Engineers (IEEE)

ACM Special Interest Group on Computer-Human Interaction (SIGCHI)