Michael J. Johnson

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OBJECTIVE

Seeking opportunities to apply knowledge in computer science and engineering to promote STEM, CS, and AI education, enhance learning using software and physical computing, and provide teacher professional development.

EDUCATION

Georgia Institute of Technology, Atlanta, GA
Ph.D. in Computer Science, w/ specialization in Learning Sciences and Technology — Aug 2018 – Aug 2024
M.S. in Computer Science, w/ specialization in Computational Perception and Robotics — May 2021 – May 2022

The Ohio State University, Columbus, OH — Aug 2014 – May 2018
B.S. in Electrical Engineering, Cumulative GPA: 3.73 — Magna Cum Laude w/ Honors in Engineering
Minor in Computer and Information Science

RECENT HONORS & AWARDS

2025 SSMN Grantee, *Sloan Scholars Mentoring Network* — Aug 2025
Alfred P. Sloan Foundation Minority Ph.D. Fellowship, *Georgia Institute of Technology* — Sep 2021 – Aug 2024
Presidential Fellowship Awardee, *Georgia Institute of Technology* — Aug 2018 – May 2022
Goizueta Foundation Fellowship, *Georgia Institute of Technology* — Aug 2018 – May 2022

SELECT PUBLICATIONS & PRESENTATIONS

Gombolay, M. C., **Johnson, M. J.**, Liu, R., & Gopalan, N. (2025). “Human-Robot Collaborative Flexible Manufacturing System and Method” (U.S. Patent No. 12,468,279). U.S. Patent and Trademark Office.

Johnson, M. J. et al. (2024) “Lessons Learned from Developing and Implementing a High School CS Bridge Program.” In Proceedings of the Conference for Research on Equitable and Sustained Participation in Engineering, Computing, and Technology (RESPECT 2024).

Johnson, M. J., Baker, R. A., Hovey, C. L., & DiSalvo, B. (2024) “Keeping Mindful of Modality: A Comparison of Computer Science Education Resources for Learning.” In Proceedings of the 23rd Koli Calling International Conference on Computing Education Research (Koli Calling ‘23).

Johnson, M. J., Castro, F. E. V., DiSalvo, B., & DesPortes, K. (2023) “Chronicles of Exploration: Examining the Materiality of Computational Artifacts.” In Proceedings of the 2023 ACM Conference on International Computing Education Research V.1 (ICER '23 V1).

Johnson, M. J. (2025). “For Your Consideration: A Teacher’s Guide for Evaluating and Choosing CS EdTech.” At the Micro:bit Educational Foundation.

RELEVANT RESEARCH & PROJECT EXPERIENCE

Postdoctoral Research Associate, *University of Florida* — **Gainesville, FL**
Computing Education Research with Dr. Maya Israel

Teacher Support for Integrating Computing EdTech in K–12 Curricula — Aug 2024 – present
- Research on mitigating barriers to integration of computing educational technologies in K–12 curricula.

Programmable Learning Technologies Framework — Sep 2024 – present
- Research on supporting K–12 teachers in reviewing and evaluating computing educational technologies for computer programming.

Graduate Research Assistant, *Georgia Institute of Technology* **Atlanta, GA**
Computing Education Research with Dr. Betsy DiSalvo and Dr. Kayla DesPortes

Cross-Modality Instruction in High School Computing Education — Oct 2021 – May 2024
- Research on how learning with computing education technologies differs across multiple mediums of interaction.

Interdisciplinary Co-Design with Arts and Computing — Sep 2020 – May 2024
- Research on the interdisciplinary co-design process and how students' experiences are shaped by hybrid arts and computing exposure.

RECENT TEACHING EXPERIENCE

Co-Instructor, Pedagogical Practices in UDL for CS (Jun 2025), *CSforAtlanta Innovate CS Summit 2025*
Adjunct Lecturer, Classroom Interactions in Math and CS (Jan 2025 – May 2025), *University of Florida*
Guest Lecturer
- Integrating Tech in the Elem Curriculum, (Oct 2024; Sep 2025 – Nov 2025), *University of Florida*
- Explorations in Teaching Mathematics and Science, (Feb 2025 – Mar 2025), *University of Florida*
- Educational Technology, (Jun 2021; Mar 2022; Mar 2023), *Georgia Institute of Technology*

OTHER WORK & LEADERSHIP EXPERIENCE

RoboGrads Student Organization, *Georgia Institute of Technology* **Atlanta, GA**

Vice President of Communications — Apr 2020 - Apr 2021
- Organized email listservs, communication requests, website, and calendar of RoboGrads events for over 150 graduate students.

Vice President of Public Relations — Sep 2019 – Apr 2020
- Represented over 150 graduate students of the Institute of Robotics and Intelligent Machines to external groups.
- Organized the first Southeast Robotics Symposium at Georgia Tech and contacted universities and research labs for participation.

TECHNICAL SKILLS

Software Experience: Python, Arduino IDE, Java, C++, MATLAB, Unity, Autodesk Inventor Pro, SolidWorks
Hardware Experience: micro:bit, Arduino, Raspberry Pi
Tools and Fabrication: soldering, breadboarding, laser cutter, 3D modeling and printing

REFERENCES

Dr. Maya Israel, Professor, College of Education, *University of Florida*
- Relationship: Postdoctoral Advisor, Director of the CS Everyone Center for Computer Science Education
- Email: misrael@coe.ufl.edu

Dr. Betsy DiSalvo, Associate Professor, College of Computing, *Georgia Institute of Technology*
- Relationship: PhD Advisor, Director of the Culture and Technology Lab (CATLab)
- Email: bdisalvo@cc.gatech.edu

Dr. Kayla DesPortes, Associate Professor, Steinhardt School of Culture, Education, and Human Development, *New York University*
- Relationship: Research Collaborator
- Email: kd90@nyu.edu