Thomas W. Price, Ph.D.

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Professional Experience

Associate Professor, Computer Science, North Carolina State University   07/2024 – Present
NC State University is the *#1-ranked university for Computer Science Education Research in the world*.
- Achieved promotion and tenure through a unanimous endorsement from colleagues and outside experts, recognizing outstanding innovation and global impact in CS education research.

Assistant Professor, Computer Science, North Carolina State University   08/2018 – 07/2024
Multifaceted role blending research and teaching to improve learning in Computer Science:
- ***Learning Technology Design***: Designed, prototyped, and implemented state-of-the-art learning technologies that lower barriers for novices and increase engagement (see portfolio).
- ***Curriculum Design***: Developed two courses from the ground up to support asynchronous, online learning, iteratively reworked with student feedback:
  - *CSC110 - Computer Science Principles*: Novice-friendly intro programming course, creative projects, and a unique flipped classroom approach with in-IDE lectures.
  - *Introduction to Data Mining*: Professional upskilling course on the fundamentals of machine learning and data mining, funded by a Department of Labor's AI Academy.
- ***Teaching Expertise***: Taught 1000+ undergraduate, graduate, and professional students, achieving well above-average student evaluations (4.54/5), using effective pedagogy (e.g., project-based learning, flipped classroom) and my own learning technologies.
- ***Technical Expertise***: Developed, deployed and maintained 10+ learning technologies, using modern web development frameworks, improving outcomes for 1000+ students.
- ***User Research & Product Improvement***: Designed and executed 30+ user studies to evaluate learning technologies, understand user pain points, and improve design, through both data-driven & qualitative methods.
- ***Leadership & Product Management***: Oversaw a $4M portfolio of 6 simultaneous projects, including 5 direct supervisees and 10+ team members, prioritizing goals, meeting regular deadlines, and coordinating the priorities of stakeholders.
- ***Mentorship***: Managed, funded and mentored a team of 7 junior researchers, fostering their professional growth and personal well-being, leading to careers at Apple and Meta, and in highly-competitive tenure-track faculty roles.
- ***Communication***: Published 65+ papers on improving computer science education, which have attracted over 2,000 citations from other researchers who have built on my work.
- ***Award-Winning Innovations***: My work has been won competitive awards, including:
  - Winning the **$1M** XPrize Digital Learning Challenge for innovation in evaluation of learning technology.
  - **6 Best Paper and Exemplary Paper Awards** at top-tier, international research venues.
  - My department's **Person of Exceptional Performance** and **"Awesome"** awards, recognizing my success, service and teamwork out of ~100 employees.
- ***Impact***: The impact of my work has been recognized with $4.85M in highly-competitive funding from NSF to: support creative, open-ended programming, improve machine learning education and software testing education, and increase the retention of women in CS.

Technical Qualifications

Portfolio: https://thomaswp.github.io/   **GitHub**: https://github.com/thomaswp/
Fluent: TypeScript/JavaScript, C# (.NET), Python (pandas, sklearn), Java, R, SQL, HTML/CSS, Git

Education

Ph.D. in Computer Science	North Carolina State University	2018
M.S. in Computer Science	North Carolina State University	2015
B.S. in Computer Science	Elon University	2013