




# GARRETT C. MILLAR

## UX/HCI RESEARCHER

### CONTACT

-  RALEIGH, NC
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### SKILLS

UX RESEARCH & DESIGN
HCI RESEARCH METHODS
JAVASCRIPT
PYTHON
GIS
STATISTICS
FRONT-END DEVELOPMENT
DATA VISUALIZATION
ADOBE CREATIVE SUITE

### COURSES

HUMAN FACTORS METHODS
STATISTICS I, II, III
ERGONOMIC PERFORMANCE ASSESSMENT
COGNITIVE PROCESSES
PHYSIOLOGICAL PSYCHOLOGY
COGNITIVE SCIENCE

### PROFILE



A collaborator and researcher with a passion for innovation across a wide variety of platforms. With an inquisitive and empathetic nature, and a background in psychology, computer science, and graphic design, I seek to understand and communicate the human needs, behaviors, motivations, and the physical and cognitive factors that impact the design and function of things. With 8 years in UX / HCI research and design, human computer interaction, computer science, and design strategy, I bring a strong strategic mindset that connects science and art with a core value of user-centered design.

### EDUCATION



#### 2018 — 2021 | DOCTORATE OF PHILOSOPHY<sup>a,\*</sup>

Geospatial Analytics  
North Carolina State University, Raleigh, NC

#### 2016 — 2018 | DOCTORATE OF PHILOSOPHY<sup>b,\*</sup>

Psychology — Human Factors & Applied Cognition  
North Carolina State University, Raleigh, NC

#### 2012 — 2016 | BACHELOR OF ARTS

Psychology  
North Carolina State University, Raleigh, NC

### WORK EXPERIENCE



#### 2017 — PRESENT | GRADUATE RESEARCH & TEACHING ASSISTANT

##### CENTER FOR GEOSPATIAL ANALYTICS — NC STATE UNIVERSITY

- Develop, plan, and manage participatory workshops to understand and resolve user needs encountered during the use of web-mapping platforms.
- Direct design efforts for prototyping and development of web-mapping interfaces through mockups and front-end coding.
- Design and develop visual tools and features for new GUI and startup-screen to enable intuitive software use for all user levels.
- Assist in the design and implementation of after-school STEM learning programs.
- Direct evaluative research efforts for assessing learning outcomes and effectiveness of STEM learning programs for high school students.

#### 2016 — 2018 | GRADUATE RESEARCH ASSISTANT

##### LABORATORY FOR THE STUDY OF METACOGNITION & ADVANCED LEARNING TECHNOLOGIES

- Designed, developed, and tested interactive multimedia systems with virtual agents to promote college students' STEM learning.
- Built and tested serious gaming environments to increase students' science literacy.

### SELECTED PUBLICATIONS



**Millar, G. C.**, Mitas, O., Boode, W., Hoeke, L., de Kruijf, J., Petrasova, A., & Mitasova, H. (2021). Space-time analytics of human physiology for urban planning. *Computers, Environment and Urban Systems*, 85, 101554.

**Millar, G. C.**, Tabrizian P., Petrasova A., Petras V., Harmon B., Mitasova H., Meetenmeyer R. K. (2018). Tangible landscape: A hands-on method for teaching terrain analysis. In *Proceedings of the 2018 chi conference on human factors in computing systems* (pp. 380:1–380:12). New York, NY, USA: ACM. [**Winner of the Honorable Mention for Best Paper Award**].

Pryor, M., **Millar, G. C.**, McNamara, A., Kaufman, L., & McLaughlin, A. C. (2017, September). Creating content guidelines for consistent display of information on an ecommerce website. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 61, No. 1, pp. 1834-1838). Sage CA: Los Angeles, CA: SAGE Publications.

<sup>a,\*</sup> Expected defense August 2021.

<sup>b,\*</sup> Transferred from Human Factors and Applied Cognition to Geospatial Analytics in February 2018.