

## **Curriculum Vitae**

Last update: December 10, 2023

### **Tara Burke**

Faculty Research Specialist

University of Maryland, College Park

Individual: [tburkel3.github.io](https://tburkel3.github.io)

Project Smart Cities: <https://www.umdsmartgrowth.org/city/>

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## **I. Employment**

### **I.A. Academic Appointments at University of Maryland, College Park, MD (UMD)**

9/2022-present Faculty Research Specialist, School of Architecture, Planning, Preservation (MAPP)  
Director, Research | Practice Development, MAPP  
Director, Smart Cities Initiative, National Center for Smart Growth (NCSG), MAPP

### **I.B. Staff Appointments at UMD**

9/2018-8/2022 Director, Smart Cities Initiative & Research | Practice Development, MAPP  
2/2015-3/2017 Director, Research Development Resources, Vice President for Research Office  
11/2013-1/2015 Director, Corporate Relations, Computer Science &  
University of Maryland Institute for Advanced Computer Studies (UMIACS)  
7/2013-10/2013 Assistant Director, Corporate Relations, Computer Science and UMIACS

### **I.C. Other Employment**

4/2017-8/2018 Principal, Raven Consulting, Research Development  
2/2006-6/2013 Data Analyst, University Development, University of California, Davis

### **I.D. Educational Background**

9/2022-present PhD student in Information Studies, College of Information Studies; UMD  
Part-time, expected graduation in May 2026  
1999-2001 Unclassified- Pre-medical school coursework, U. of British Columbia, Canada  
1988-1992 BS Zoology, UMD

## **II. Research, Scholarly, Creative and/or Professional Activities**

### **II.A. Sponsored Research**

#### **II.A.1. Funded Grants**

1. University of Maryland, Grand Challenges Individual Grant #28; \$150K; March 2023-Feb 2026; Digital Equity Mapping Research and Training Program; **Tara Burke, PI**, UMD-MAPP.
2. State of Maryland, Digital Inclusion Grant Program (MD-DIG); \$95K; March-June 2024; Community-Engaged, Digital Equity Mapping Project; **Tara Burke, PI**, UMD-MAPP; Sheila Somashekhar, team member, UMD-NCSG (UMD-NCSG, team member); Nicholas Finio (UMD-NCSG, team Member).
3. NSF # 2125526, \$150K; Oct 2021-May 2023; SCC-PG: Park WiFi as a BRIDGE to Community Resilience; Nirupam Roy, PI; Lauren Belle (M-NCPPC) (Co-PI); Jennifer Roberts (UMD-SPH, Co-PI); Naomi Sachs (UMD-Landscape Architecture, Co-PI); Elizabeth Bonsignore (UMD-iSchool, Co-PI); **Tara Burke, Senior Personnel**, UMD-MAPP (and others).

### **II.B. Conferences, Workshops, and Talks**

1. Poster: INSciTS 2023 Annual Conference, Framework for Student Research Engagement on Interdisciplinary Civic-Engaged Projects; July 24-26, Bethesda, Maryland Byoung-Suk Kweon, Lauren Belle, Kim Fisher, **Tara Burke – Poster preparer and presenter**, Joy Haghtalab, Nirupam Roy (PI), Naomi Sachs, Jennifer Roberts.

2. Baltimore Avenue, Smart and Connected Communities Roundtable, MAPP-UMD; Digital Divide and Skills Project Update; October 25, 2022; presentations available [online](#).
3. Partnership for Action Learning and Sustainability (PALS) and Interdisciplinary Research with Students, **Burke, T.**, Fisher, K. (PALS Program Director), Belle, L. (Co-PI and Community Partner; MNCPPC; Sustainability Specialist II), EPIC-N, "Partnership for Action Learning and Sustainability (PALS) and Interdisciplinary Research with Students," (Presentation) EPIC-N Webinar Resilience Series, EPIC-N Zoom hosted. (September 20, 2022). The UMD NSF research team described how the PALS program has been used to augment and engage students more directly in interdisciplinary research activities.
4. NSF Grants Conference Presentation; Smart and Connected Communities Awardee Team update, Presentation and Poster: SCC-Planning: How Can Investments In Smart Cities Technologies Improve The Lives Of Low-Income, Inner-City Residents (NSF# 1737495) Denver CO, April 2-4, 2019.

## II.C. Professional Reports

1. **Tara Burke**, The Architecture Profession Research/Practice Report, September 2022. MAPP UMD, available [online](#).

## II.D. Articles in Progress

1. **Marccus Hendricks**, Qian Yao Si, Priscila B. R. Alves, Mitchell A. Pavao-Zuckerman, **Tara Burke**, Pierre Gaunard, Tamara Clegg, David Loshin, Andrew Fellows, Taylor Keen, Gerrit-Jan Knaap; Urban Stormwater Monitoring and Adaptive Management Using an Internet of Things (IoT)-Based Framework: Literature Review and Application Case Study, Journal of Sustainable and Resilient Infrastructure, submitted October 2022; revision under review November 2023

## III. Teaching, Extension, Mentoring, and Advising

### III.A. Conference/Workshop Host

1. Healthy Places Seed Grant, Mid-Award Roundtable, MAPP-UMD, November 30, 2023; awardee abstracts available [online](#) and on the [Smart Cities site](#).
2. Baltimore Avenue, Smart and Connected Communities Roundtable, MAPP-UMD; Evidence Based City making and Walkability Beyond the Right of Way; November 10, 2023; agenda and presentations available [online](#).
3. Research/Practice Development Workshop, MAPP-UMD; Office of Government Relations at UMD - How We Work With Researchers, April 26, 2023; presentation slides available [online](#).
4. Research/Practice Development Workshop, MAPP-UMD; All About Publishing and Open Access April 4, 2023; recording and presentation available [online](#).
5. Research/Practice Development Workshop, MAPP-UMD; Turn Research | Practice into Publications and Books, February 13, 2023; resource and literature lists available [online](#).
6. Research/Practice Forum #2, MAPP-UMD; Societal Grand Challenges: Equitable Communities; January 31, 2023; abstracts and presentations available [online](#).
7. Research/Practice Forum, MAPP-UMD; Societal Grand Challenges: The Future of Urbanism, February 22, 2022; abstracts and presentations available [online](#).

### III.A.2. Guest Lectures (Presented in traditional classes or for someone else's program)

1. URSP 805 (UMD-MAPP), Seminar in Research Design; research funding opportunities and methods to better prepare PhD students for academic careers; for Sevgi Erdogan, & Gerrit Knaap, 2019, 2020, 2021

### III.B. Other Teaching Activities

1. Research/Practice Development Workshop, MAPP-UMD; Doing Research with Sub-awardees, Consultants, and Students, October 27, 2023; recording and presentation slides available [online](#)
2. Research/Practice Development Workshop, MAPP-UMD; Proposal Research Budgets Development, September 22, 2023; recording and presentation slides available [online](#).
3. Research/Practice Development Workshop, MAPP-UMD; All about Budgets, September 14, 2022.

#### **IV. Service and Outreach**

##### **IV.A. Editorships, Editorial Boards, and Reviewing Activities**

###### **IV.A.1. Reviewing Activities for Agencies and Foundations**

1. NSF Proposal Review Committee, CISE, Feb 2019
2. NSF Proposal Review Committee, CISE, Feb 2020

##### **IV.B. Committees, Professional & Campus Service**

###### **IV.B.1. Campus Service – Department**

1. Hiring/Search Committee member for Assistant Dean level position in 2023
2. Hiring/Search Committee member for Director level position in 2022

###### **IV.B.2. Campus Service – University**

1. Hiring/Search Committee member for ENGR-A. James Clark School of Engineering, Director level position in September 2022 - May 2023
2. Team member 5G/6G Working Group, per President Pines; report compiled and submitted 2022; ongoing Smart Cities Living Laboratory project development (last update, December 2023)

###### **IV.B.3. Offices and Committee Memberships**

###### **IV.B.4. Leadership Roles in Meetings and Conferences**

1. Burke, Tara "Baltimore Avenue Smart and Connected Communities Roundtable", University of Maryland. October 2022. In September 2017, NCSG and the College of Information Studies (iSchool) launched an initiative to develop an institutional framework for research, education, and public engagement in smart cities and urban analytics at UMD – entitled the Smart Cities Initiative (SCI). Public Engagement: Community engagement is a key strength of SCI. Each Fall and Spring semester, a Smart Cities themed “roundtable” meetings has been organized for the Baltimore Avenue Corridor since January 2018 with academics, industry, local municipal leaders, and other organizational stakeholders in Prince George’s County. This roundtable has a roster of approximately 135 individuals with 35-45 participants at each session from the three sectors: academia, industry, municipal government.

##### **IV.C. External Service and Consulting**

###### **IV.C.1. Community Engagements, Local, State, National, International**

1. Council member of the DC chapter of the Internet Society (ISOC-DC) since 2021, a hub for education and research on digital equity.

##### **IV.D. Community & Other Service**

1. North Star Tutoring: 6th grade math; June 2022-present

#### **V. Public Engagement, Scholarship and Practice**

##### **V.A. Community Engaged Practice**

1. Please see funded awards, Section II.J.I