# **Patrick A. Carrington**

Carnegie Mellon University Human-Computer Interaction Institute 407 S. Craig Street, Room 201, Pittsburgh, PA 15213	www.patrickcarringto pcarrington@cn Phone: (443) 472	nu.edu
ACADEMIC POSITIONS		
Assistant Professor, Human-Computer Interaction Institute Carnegie Mellon University	2019 – I Pittsburgh, Penns	
Postdoctoral Research Fellow, Human-Computer Interaction Institute Carnegie Mellon University, Supervisor: Jeffrey P. Bigham	2017 Pittsburgh, Penns	– <b>2019</b> ylvania
EDUCATION		
Ph.D., Human-Centered Computing University of Maryland, Baltimore County	Baltimore, Ma	2017 aryland
M.S., Human-Centered Computing University of Maryland, Baltimore County	Baltimore, Ma	2012 aryland
B.S., Information Systems [Cum Laude] University of Maryland, Baltimore County Information Systems Certificate: Web Development	Baltimore, Ma	2011 aryland
RESEARCH GRANTS AND GIFTS		
Google Collaboration: AI in the Accessible Kitchen     Pl: Patrick Carrington	\$80,000	2023
• NSF SCC IRG: Enabling Independent Mobility in People with Physical Disabilities PI: Carol Menassa (U-Mich) Co-PI: Patrick Carrington (CMU PI)	\$260,000	2022
• Mobility21 UTC: Bus on the Edge: Passengers PI: Christoph Mertz, Co-PI: Patrick Carrington	\$100,000	2022
• NSF SCC-PG: Equitable New Mobility PI: Sarah Fox, Co-PIs: Corey Harper, Nikolas Martelaro, Patrick Carrington, Jodi Forlia	\$150,000 zzi	2022
• USDOT Inclusive Design Challenge – Stage 1 Pl: Nikolas Martelaro, Co-Pls: Patrick Carrington, Sarah Fox, Jodi Forlizzi	\$300,000	2021
• Mobility21 UTC "Big Idea": Integrating Solutions to Enable the "Complete Trip" Pl: Stephen Smith, Co-Pls: Patrick Carrington, Artur Dubrawski, Srinivasa Narasim Rubinstein, Robert Tamburo, Ji Zhang	\$571,324 han, Jean Oh, Zach	2021 ary B.
• Mobility21 UTC: Data Collection Systems to Support Community Driven Mobility Serv Pl: Patrick Carrington, Co-Pls: Nikolas Martelaro, Sarah Fox, Jodi Forlizzi	ices \$100,000	2021
• Mobility21 UTC: Designing the Future of Transit Work Pl: Sarah Fox, Co-Pls: Nikolas Martelaro, Patrick Carrington, Jodi Forlizzi	\$100,000	2021
• Microsoft Research Software Engineering Innovations Fund	\$25,000	2013

# **Curriculum Vitae**

*Title:* Wheeltop Interaction: Full-Body Gesture Control for Power Wheelchair Users (Significant Writing Contribution with Kane, S.K. and Hurst, A.)

• Nokia Research, University Cooperation Funding

## **\$11,450** 2013

## HONORS AND AWARDS

Awards		
• DIS 2021: Best Paper Honorable Mention (Top 5%)	2021	
CHI 2020: Best Paper Honorable Mention (Top 5%)	2020	
CHI 2019: Best Paper Award (Top 1%)	2019	
<ul> <li>ASSETS 2018: Best Paper Honorable Mention (Top 5%)</li> </ul>	2018	
CHI 2014: Best Paper Honorable Mention (Top 5%)	2014	

## PUBLICATIONS

## Peer-Reviewed Journal Articles

[J.1] Carrington, P., Chang, J-M., Chang, K., Hornback, C., Hurst, A., and Kane, S.K. (2016) The Gest-Rest Family: Exploring input possibilities for Wheelchair armrests. *ACM* Transactions on *Accessible Computing*. ACM.

## Peer-Reviewed Conference Papers

- [C.23] Pei, S., Chen, A., Chen, C., Li, F.M., Fozzard, M., Chi, H.Y., Weibel, N., Carrington, P. and Zhang, Y. (2023) Embodied Exploration: Facilitating Remote Accessibility Assessment for Wheelchair Users with Virtual Reality. In Proceedings of the 25th International ACM SIGACCESS Conference on Computers and Accessibility (pp. 1-17).
- [C.22] Li, F.M., Zhang, L., Bandukda, M., Stangl, A., Shinohara, K., Findlater, L. and Carrington, P. (2023) Understanding Visual Arts Experiences of Blind People. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (pp. 1-21).
- [C.21] Li, Y., Li, F.M. and Carrington, P. (2023). Breaking the "Inescapable" Cycle of Pain: Supporting Wheelchair Users' Upper Extremity Health Awareness and Management with Tracking Technologies. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (pp. 1-17).
- [C.20] Li, F. M., Liu, M. X., Zhang, Y., Carrington, P. (2022). Freedom to Choose: Understanding Input Modality Preferences of People with Upper-body Motor Impairments for Activities of Daily Living. In Proceedings of the 24th International ACM SIGACCESS Conference on Computers and Accessibility (pp. 1-16).
- [C.19] Martelaro, N., Carrington, P., Fox, S., Forlizzi, J. (2022). Designing an Inclusive Mobile App for People with Disabilities to Independently Use Autonomous Vehicles. In Proceedings of the 14th International Conference on Automotive User Interfaces and Interactive Vehicular Applications (pp. 45-55).
- [C.18] Li, F.M., Spektor, F., Xia, M., Huh, M., Cederberg, P., Gong, Y., Shinohara, K. and Carrington, P. (2022) "It Feels Like Taking a Gamble": Exploring Perceptions, Practices, and Challenges of Using Makeup and Cosmetics for People with Visual Impairments. In CHI Conference on Human Factors in Computing Systems (pp. 1-15). ACM.
- [C.17] Li, F.M., Lu, C., Lu, Z., Carrington, P. and Truong, K.N. (2022) An Exploration of Captioning Practices and Challenges of Individual Content Creators on YouTube for People with Hearing Impairments. *Proc. ACM Human-Computer Interaction 6, CSCW1*, Article 75 (April 2022), 26 pages. https://doi.org/10.1145/3512922.
- [C.16] Khurana, R, Wang, A., Carrington, P. (2021) Beyond Adaptive Sports: Challenges & Opportunities to Improve Accessibility and Analytics. Proceedings of ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2021). ACM.

[C.15] Li, F.M., Dorst, J., Cederberg, P., and Carrington, P. (2021) Non-Visual Cooking: Exploring Practices and Challenges of Meal Preparation by People with Visual Impairments. *Proceedings of ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2021)*. ACM.

[C.14] Bennett, C.L., Ackerman, E., Fan, B., Bigham, J.P., Carrington, P., and Fox, S. (2021) Accessibility and The Crowded Sidewalk: Micromobility's Impact on Public Space. *Proceedings of the Designing Interactive Systems Conference (DIS 2021)*. ACM. *[Best Paper Honorable Mention - Top 5%]*

- [C.13] Liu, X., Carrington, P., Chen, X., and Pavel, A. (2021) What Makes Videos Accessible to Blind and Visually Impaired People?. *Proceedings of ACM Conference on Human Factors in Computing (CHI 2021).* ACM.
- [C.12] Swaminathan, S., Yim, Y., Hudson, S.E., Bennett, C., Carrington, P. (2021) From Tactile to NavTile: Opportunities and Challenges for Multi-Modal Feedback in Guiding Surfaces during Non-Visual Navigation. Proceedings of ACM Conference on Human Factors in Computing (CHI 2021). ACM.
- [C.11] Gleason, C., Pavel, A., McCamey, E., Low, C., Carrington, P., Kitani, K., and Bigham, J.P. (2020) Twitter A11y:
   Making Images on Social Media Accessible. *Proceedings of ACM Conference on Human Factors in Computing* (*CHI 2020*). ACM. [*Best Paper Honorable Mention - Top 5%*]
- [C.10] Gleason, C., Pavel, A., Liu, X., Carrington, P., Chilton, L., and Bigham, J.P. (2019) Making Memes Accessible. Proceedings of ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2019). ACM.
- [C.9] Gleason, C., Carrington, P., Cassidy, C., Morris, M.R., Kitani, K., and Bigham, J.P. (2019) "It's almost like they're trying to hide it": How User-Provided Image Descriptions Have Failed to Make Twitter Accessible. WWW 2019: The Web Conference.
- [C.8] Hofmann, M., Williams, K., Kaplan, T., Valencia, S., Han, G., Hudson, S.E., Mankoff, J., and Carrington, P.
   (2019) "Occupational Therapy is Making": Design Iteration and Digital Fabrication in Occupational Therapy. ACM Conference on Human Factors in Computing Systems (CHI 2019). ACM. [Best Paper Award - Top 1%]
- [C.7] Carrington, P., Laput, G., and Bigham, J.P. (2018) Exploring Data Tracking and Sharing Preferences of Wheelchair Athletes. *Proceedings of ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2018)*. ACM. *[Best Paper Honorable Mention Top 5%]*
- [C.6] Rosenblatt, L., Carrington, P., Hara, K., and Bigham, J.P. (2018) Vocal Programming for People with Upper-Body Motor Impairments. *Proceedings of Web for All (W4A 2018)*. ACM.
- [C.5] Carrington, P., Ketter, D., and Hurst, A. (2017) Understanding Fatigue and Stamina Management Opportunities and Challenges in Wheelchair Basketball. *Proceedings of ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2017).* ACM.
- [C.4] Carrington, P., Chang, K., Mentis, H., and Hurst, A. (2015) "But, I don't take steps": Examining the inaccessibility of fitness trackers for wheelchair athletes. *Proceedings of ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2015).* ACM.
- [C.3] Carrington, P., Hosmer, S., Yeh, T., Hurst, A., and Kane, S.K. (2015) "Like This, But Better": Supporting Novices' Design and Fabrication of 3D Models Using Existing Objects. *In Proceedings of iConference 2015.*
- [C.2] Carrington, P., Hurst, A., and Kane, S.K. (2014) The Gest-Rest: A Pressure-Sensitive Chairable Input Pad for Power Wheelchair Armrests. In Proceedings of ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2014). ACM.
- [C.1] Carrington, P., Hurst, A., and Kane, S.K. (2014) Wearables and Chairables: Inclusive Design of Mobile Input and Output Techniques for Power Wheelchair Users. In Proceedings of ACM Conference on Human Factors in Computing Systems (CHI 2014). ACM. [Best Paper Honorable Mention - Top 5%]

### Peer-Reviewed Conference Abstracts and Posters

[P.4] Jang, J., Li, Y., & Carrington, P. (2022, October). "I Should Feel Like I'm In Control": Understanding Expectations, Concerns, and Motivations for the Use of Autonomous Navigation on Wheelchairs. In Proceedings of the 24th International ACM SIGACCESS Conference on Computers and Accessibility (pp. 1-5).

- [P.3] Low, C., McCamey, E., Gleason, C., Carrington, P., Bigham, J.P., and Pavel, A. (2019). Twitter A11y: A Browser Extension to Describe Images. In Proceedings of ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2019) p. 551-553. ACM.
- [P.2] Carrington, P., Hurst, A., and Kane, S. K. (2013). How Power Wheelchair Users Choose Computing Devices. *In Proceedings of ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2013)* p. 52. ACM.
- [P.1] Carrington, P., Kuber, R., Anthony, L., Hurst, A. and Prasad, S. (2012) Developing an Interface to Support Procedural Memory Training using a Participatory-Based Approach. *In Proceedings of BCS HCI 2012*.

## Workshop Organization

- [WO.2] Branco, D., Carrington, P., Del Din, S., Doryab, A., Gjoreski, H., Guerreiro, T., McNaney, R., Montague, K., Pradhan, A., Rodrigues, A. and Vega, J., 2021, September. Wild by Design: Workshop on Designing Ubiquitous Health Monitoring Technologies for Challenging Environments. In Adjunct Proceedings of the 2021 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2021 ACM International Symposium on Wearable Computers (pp. 508-510).
- [WO.1] Gleason, C., Carrington, P., Chilton, L. B., Gorman, B. M., Kacorri, H., Monroy-Hernández, A., ... & Wu, S. (2019, November). Addressing the Accessibility of Social Media. In Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing (pp. 474-479)..

## Workshop Papers

- [W.4] Moharana, S., Carrington, P., Harrington, C. (2019) Inclusive Design of CUIs Across the Intersection of Race and Disability. ACM CHI 2023 Workshop. CUI@CHI: Inclusive Design of CUIs Across Modalities and Mobilities.
- [W.3] Swaminathan, S., Valencia, S., and Carrington, P. (2019) An Approach to Last Meter Problem: Designing and Deploying Low-Cost, Custom Fabricated Interactive Tactile Tiles for Navigation and Spatial Awareness. CHI 2019 Workshop on Hacking Blind Navigation.
- [W.2] Carrington, P., Hurst, A., Kane, S.K. (2014) Designing Chairables: Assistive Augmentations to Support Wheelchair Users. *Workshop on Assistive Augmentation in Conjunction with CHI 2014.*
- [W.1] Anthony, L., Carrington, P., Chu, P., Kidd, C., Lai, J., and Sears, A. (2011) Gesture Dynamics: Features Sensitive to Task Difficulty and Correlated with Physiological Sensors. *In Proceedings of ICMI MMCogEmS 2011*.

#### Doctoral Colloquia

[D.1] Carrington, P. (2014) Developing a Chairable Computing Platform to Support Power Wheelchair Users. ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2014).

## **Editorial Reviewed Works**

- [E.4] Carrington, P., Laput, G., & Bigham, J. P. (2020). SpokeSense: developing a real-time sensing platform for wheelchair sports. ACM SIGACCESS Accessibility and Computing, (124), Article 2.
- [E.3] Carrington, P., Bernart, E. (2019) Computer Science and Sports: the digital evolution of physical competition. ACM XRDS. 25, 4 (July 2019), p. 8-9.
- [E.2] Carrington, P. Bigham, J. P., & Carrington, P. (2018). Learning from the front: People with disabilities as early adopters of Al. *Proceedings of the 2018 HCIC Human-Computer Interaction Consortium*.
- [E.1] Kane, S.K., Hurst, A., Buehler, E., Carrington, P., Williams, M. (2014) Collaboratively Designing Assistive Technology. *ACM Interactions*. 21, 2 (March 2014), p. 78-81.

#### Non-Refereed Publications and Tech Reports

[O.2] Principe Cruz, E., Kirabo, L., Carrington, P., & Hammer, J. (2021). Building Anti-Racist Futures at the CMU HCII: Recruiting BIPOC Graduate Students: Virtual Recruitment Event Design. (In press). BIPOC Literary Journal: The Colors We Carry. [O.1] Anthony, L., Carrington, P., Chu, P., Kidd, C., Lai, J., and Sears, A. (2011). Detecting Events of Interest with Physiological Sensors in a Real-World Email Search Task. *Technical Report UMBC-IS-TR-007*, 10 Oct 2011.

## PRESS AND BLOG MENTIONS

- [1] Blazina, E. CMU team to examine autonomous vehicles for people with disabilities. Pittsburgh Post-Gazette, 2021. https://www.post-gazette.com/news/transportation/2021/01/11/Carnegie-Mellon-University-federal-Departmentof-Transportation-300-000-grant-people-with-disabilities-autonomous-vehicles/stories/202101080091
- [2] Keppler, N. ChairJam Puts Spin on Hackathon Concept. cmu.edu, 2019. https://www.cmu.edu/news/stories/archives/2019/october/chairjam-spins-hackathon-concept.html
- [3] Harlan, K. HCII Team Tests Fitness Tracker for Wheelchair Athletes at NWBT. hcii.cmu.edu, 2018. http://hcii.cmu.edu/news/2018/hcii-team-tests-fitness-tracker-wheelchair-athletes-nwbt
- [4] Dubrow, A. Making the maker movement accessible. NSF.gov, 2015. https://www.nsf.gov/discoveries/disc\_summ.jsp?cntn\_id=135608
- [5] Dougherty, D. Joe Olsons diy-enabled wheelchair. Makezine Blog, 2014. http://makezine.com/ 2014/07/08/joe-olsons-diy-enabled-wheelchair/
- [6] Masterson, K. Launch pad. UMBC Magazine, Winter 2014. http://umbcmagazine.wordpress.com/umbc-magazine-winter-2014/launch-pad/

# OTHER PRESENTATIONS AND POSTERS

## **Invited Talks**

•	Choosing your Own Adventure: Enabling Accessible Experiences University of Colorado, Boulder Information Science Seminar Series	November 2023
•	Understanding Everyday Challenges to Create Accessible Experiences OurCS Virtual Diversity Conference Workshop	March 2023
•	Understanding Everyday Challenges to Create Accessible Experiences Workshop on Bridging AI and Disability	March 2023
•	AI in the Accessible Home AAAI Workshop on User-Centric Artificial Intelligence for Assistance in At-Home Tasks	February 2023
•	Wearable AT and Logging NIDILRR RERC Meeting	November 2022
•	An Accessibility Researcher's Origin Story PROMISE Seminar Series	April 2022
•	From Content to Intent: Designing Accessible UX on Social Media University of Pittsburgh, DBMI Seminar Series	March 2022
•	Designing Systems to Enable Accessible User Experiences uxWaterloo	March 2022
•	Building Chairables: Designing Technologies for Accessibility and Engagement BostonCHI	May 2021
•	Building Chairables: Designing Accessible Mobile Computing Experiences DUB Seminar Series, University of Washington	March 2021

•	Building Chairables: Designing Technologies for Accessibility and Engagement Human-Computer Interaction Seminar Series, Stanford University	January 2021
•	Building Chairables: Designing Accessible Mobile Computing Experiences MISC Seminar Series, University of Michigan	November 2020
•	Building Chairables for Sports Computer Science Seminar Series, James Madison University	November 2019
•	Chairable Computing: Designing Accessible Computing Experiences for Wheelchair Users The iSchool Inclusion Institute (i3), University of Pittsburgh	June 2019
•	Digital Access for People with Motor Impairments Digital Access Training: Universal Access Committee, Carnegie Mellon University	February 2018
•	Chairable Computing: Designing Mobile and Wearable Tech for Wheelchair Users Human-Computer Interaction Institute, Carnegie Mellon University	May 2017
•	Designing Accessible Interactive Systems for People with Mobility Impairments HCI Seminar at Rochester Institute of Technology	November 2014
Inv	rited Panels	
•	HCI Today: Supporting Ability and Performance through Technology HCII 25th Panel: HCI Today	October 2019
•	What People with Disabilities Can Teach Us About AI HCIC 2018 Panel: Al and HCI, New Interaction Modalities	June 2018

# TEACHING

## Instructor

•	05-391/891: Designing Human Centered Software	Fall 2022, Spring 2023, Fall 2023	
	Carnegie Mellon University, Human-Computer Interaction Institute		
•	05-499/899: Special Topics: Accessibility	Spring 2021, Fall 2021, Spring 2022	
	Carnegie Mellon University, Human-Computer Interaction Institute		
•	05-430/630: Programming Usable Interfaces	Spring 2020, Fall 2021	
	Carnegie Mellon University, Human-Computer Interaction Institute		
•	IS 101: Introduction to Computer Based Systems	Fall 2014, Spring 2015	
	University of Maryland, Baltimore County, Information Systems		
Guest Lecturer			
٠	Inclusive Making, Instructor: Marcelo Worsley	Spring 2019	
	Northwestern University, Electrical Engineering and Computer Science	nce	
•	<b>05 499/899: Special Topics:</b> Accessibility, Instructor: Jeffrey Bigham Carnegie Mellon University, Human-Computer Interaction Institute	Fall 2017	

# SUPERVISION

## **Doctoral Student Advising**

- 2020-Present, Mingzhe Li, (Advisor)
- 2021-Present, Yunzhi Li (Advisor)
- 2021-Present, Frank Elavsky (Co-Advised with Dominik Moritz)

- 2022-Present, Joon Jang (Co-Advised with Andrew Begel)
- 2022-Present, Sanika Moharana (Co-Advised with Christina Harrington)
- 2022-Present, Doctoral Committee Member, Tamanna Motahar (Utah)
- 2021-2022, Doctoral Committee Member, Reza Moradinezhad (Drexel)
- 2021-2022, Doctoral Committee Member, Megan Hoffmann
- 2021-2022, Doctoral Committee Member, Kristin Williams
- 2019-2020, Doctoral Committee Member, Cole Gleason

## Undergraduate/Graduate Research Mentoring

- 2022, Joon Jang
- 2021, Isabel Ngan (M.S. HCI)
- 2021, Juan Garza (Summer)
- 2021, Mei-Lian Vader (Summer)
- 2019, Simran Jobanputra (M.S. HCI)
- 2020, Bruce Liu
- 2020, Ashley Wang
- 2020, Yellina Yim
- 2020, Nali Huynh
- 2020, Andrew Chuang
- 2019, Elena Deng
- 2018, Stephanie Wang, B.S. Statistics and ML, CMU, Summer 2018 REU,
- 2018, Adrian Jenkins, B.S. Computer Science, Hampton University, Summer REU

## ACADEMIC AND PROFESSIONAL SERVICE

## Carnegie Mellon University

5	
HCII Ph.D. Admissions Committee Co-Chair	2021-2024
HCII Diversity, Equity, and Inclusion Committee (BLM Subcommittee Chair)	2020-2021
HCII Undergraduate Admissions Committee	2020
HCII Ph.D. Admissions Committee	2020
Accessibility Lunch Seminar (Co-Organizer)	2019-2024
Conference Program Committees	
CHI 2024, Papers Program Committee	2024
ASSETS 2023, Program Committee	2023
CHI 2023, Papers Program Committee	2023
ASSETS 2022, Program Committee	2022
ASSETS 2020, Program Committee	2020
CHI 2019, Papers Program Committee	2019
Pervasive Health 2019, Technical Program Committee	2019
ASSETS 2019, Program Committee	2019
ASSETS 2018, Program Committee	2018
CHI 2018, Papers Program Committee	2018
Pervasive Health 2018, Technical Program Committee	2018

Pervasive Health 2017, Technical Program Committee Mobile HCI 2017, Late Breaking Work Associate Chair ASSETS 2015, Program Committee	2017 2017 2015
ReviewingInteractive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)International Web for All Conference (W4A)User Interface Software and Technologies (UIST)Transactions on Accessible Computing (TACCESS)ACM Conference on Human Factors in Computing Systems (CHI)Designing Interactive Systems (DIS)International Symposium on Wearable Computing (ISWC)International Journal of Human Computer Studies (IJHCS)	2021 2020, 2021 2018-2019, 2021 2018, 2021 2013-2024 2018 2017 2016-2017
SIGACCESS Conference on Accessible Computing (ASSETS) Posters	2015
Conference Organizing Committees	
ASSETS 2023, Doctoral Consortium Co-Chair ASSETS 2021, Doctoral Consortium Co-Chair Human-Computer Interaction Consortium (HCIC) 2021, Co-Chair UIST 2019, Diversity Chair ACM Collective Intelligence 2019, Accessibility Chair ASSETS 2019, Local Arrangements Chair CHI 2018 Organizing Committee, Student Volunteer Co-Chair CHI 2017 Organizing Committee, Student Volunteer Co-Chair	2023 2021 2021 2019 2019 2019 2018 2017
Conference Student Volunteering	
ACM Conference on Human Factors in Computing Systems (CHI) Computer Supported Cooperative Work (CSCW) International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp) User Interface Software and Technologies (UIST)	2013-2016 2014-2015 2014 2012
Other Service ACM XRDS Magazine, Guest Editor ACM ASSETS, Session Chair UMES Regional Research Symposium, Invited Moderator	2019 2017-2018 2017
COMMUNITY SERVICE AND OUTREACH	

PROMISE AGEP: Summer Success Institute, Panelist	Aug 2020
CampBioE @ University of Pittsburgh "STEM Careers", Panelist	Aug 2018
National Wheelchair Basketball Tournament, Operations Committee	2016-2018
Maryland Science Center Gadgets and Gears Day (800 attendees), Exhibitor	2017

# Patrick A. Carrington | Curriculum Vitae

UMBC 50th Anniversary Celebration PAD Lab Maker Exhibit (2,000 attendees), Exhibitor	2016
Maryland Celebration of the 26 <sup>th</sup> Anniversary of the ADA (300 attendees), Exhibitor	2016
UMBC Exhibit at Mini-MakerFaire, Organizer	Sep 2013
NSF LSAMP Bridge to Doctorate Program, Peer Mentor	2013-2017
IS Dept. Ph.D. Day "How to be a Successful Ph.D. Student", Panelist	Feb 2014

## AFFILIATIONS AND MEMBERSHIP

2017
2013
2012
2011
2010