

HEAMCHAND SUBRYAN, M.F.A, M.Arch.

EDUCATION

Master of Fine Arts (State University of New York at Buffalo, 2009)

Master of Architecture (State University of New York at Buffalo, 2009)

Bachelor of Science in Architecture (State University of New York at Buffalo, 2006)

PROFESSIONAL EXPERIENCE

Director of Interaction Design, Center for Inclusive Design and Environmental Access, State University of New York at Buffalo (2009–present)

Graduate Assistant, Center for Inclusive Design and Environmental Access, State University of New York at Buffalo (2006–2009)

Work Study Student Assistant, Center for Inclusive Design and Environmental Access, State University of New York at Buffalo (2001–2006)

HONORS

Certificate of Appreciation for efforts and contributions to the new Rehabilitation Engineering Society of North America (RESNA) logo design and graphic identity

PUBLICATIONS

Bhattacharjya, Sutanuka & Stafford, Matthew & Song, Chen & Yang, Zhuolin & Xu, Wen Yao & Cavuoto, Lora & Subryan, Heamchand & Langan, Jeanne. (2018). MRehab, Designing and Using Technology in a HomeBased Stroke Rehabilitation Program. Archives of Physical Medicine and Rehabilitation. 99. e85. 10.1016/j.apmr.2018.07.302.

Cavuoto, Lora & Subryan, Heamchand & Stafford, Matthew & Yang, Zhuolin & Bhattacharjya, Sutanuka & Xu, Wen Yao & Langan, Jeanne. (2018). Understanding User Requirements for the Design of a Home-Based Stroke Rehabilitation System. Proceedings of the Human Factors and Ergonomics Society Annual Meeting. 62. 1037-1041. 10.1177/1541931218621239.

Subryan, H. (2018). Trip Planning and Rider Information. In Steinfeld, A., J. Maisel & E. Steinfeld Accessible Public Transportation: Designing Service for Riders with Disabilities (pp.). New York: NY: Routledge.

Jha, S., Nwogu, I., Cavuoto, L., Subryan, H., & Langan, J. (2017) A portable upper extremity rehabilitation device. *W3PHIAI 2017: AAAI 2017 Joint Workshop on Health Intelligence*, San Francisco, CA, 8 pp

Lin, F., Ajay, J., Langan, J., Cavuoto, L.A., Nwogu, I., Subryan, H., & Xu, W. (2016) A portable and cost-effective upper extremity rehabilitation system for individuals with upper limb motor deficits. *Wireless Health 2016* of the *IEEE Engineering in Medicine and Biology Society*, Bethesda, MD, 8 pp.

Landau, S., Subryan, H., & Steinfeld, E. (2014). Interactive Wayfinding for the Visually Impaired. *Experiential Graphics Magazine*, 11.

Subryan, H. (2012). Product Design. In E. Steinfeld & J. Maisel, *Universal Design: Creating Inclusive Environments* (pp. 307–338). Hoboken: NJ: John Wiley & Sons.

Landau, S., Steinfeld, E., & Subryan, H. (2012). *Interactive Multisensory Models: A Research and Development Project*. Proceedings from the 4th International Conference for Universal Design, Fukuoka, Japan.

CONFERENCE PRESENTATIONS

Subryan, H., Landau, S., & Steinfeld, E. (2016, December). *Universal Design Interactive Multisensory Models*. The 4th International Conference for Universal Design, Fukuoka, Japan.

Subryan, H., Landau, S., & Steinfeld, E. (2012, October). *Universal Design Interactive Multisensory Models*. The 4th International Conference for Universal Design, Fukuoka, Japan.

Landau, S. & Subryan, H. (2013, April 13). *Perkins School for the Blind Talking Campus Model*. National Federation for the Blind, Tactile Graphics Conference, Baltimore, MD.

Landau, S. & Subryan, H. (2012, February). Perkins School Talking Campus Model. 2013 CSUN Conference: The 28th Annual International Technology and Persons with Disabilities. San Diego, CA.

Landau, S. & Subryan, H. (2012, June). *Interactive Multi-sensory Models, Three Case Studies*. UD 2012: The International Conference on Universal Design. Oslo, Norway.

PROFESSIONAL EXPERIENCE

Consultant - Assessment, Design and Implementation of a new Wayfinding system for the Christ United Methodist Church, (2018-2019)

Consultant - Richardson Olmsted Walking Tour – Assessment, Design and Implementation of a new beacon based application (2017-2018)

Product Evaluator –SBIR Phase 2: Touch-Responsive Models for Universal Access to Smithsonian Museums Exhibits (2017-present)

UI/Product Designer: A Functional Upper Limb Training and Assessment Tool to Enhance Efficacy and Scalability of Rehabilitation in Ecological Environments (2017-present)

Research Staff: Product Development for Knowledge Transfer (Multisensory Interactive Model, Interior Wayfinding System, Multisensory Sign System) (2010–present)

Consultant - Assessment, Design and Implementation of a new Wayfinding system for the Amherst Senior Center, (2016-2017)

Research Staff, Innovative Micro-Programs Accelerating Collaboration in Themes (IMPACT), “Portable Measurement Devices to Provide Feedback and Enhance Self-Management in Chronic Stroke Rehabilitation” (2015–2017)

Product Evaluator – SBIR Phase 1: Overbrook School for Blind’s Talking Campus Model: Demonstrating New Fabrication Methods for Interactive Wayfinding and Orientation Aids (2015-2016)

Research Staff, Center of Excellence in Home Health and Well-Being through Adaptive Smart Environments (Home-BASE) (2013–2017)

PROFESSIONAL EXPERTISE

Rapid Prototyping:

- 3D Printing
- Universal Laser cutter
- CNC Router

Front End Web Development:

- Languages – HTML, CSS, PHP, MySQL
- UX Design Framework
- Platforms – WordPress, Joomla
- Accessibility Requirements (W3C, Section 508)
- SEO
- Google Analytics
- Social media marketing

Software:

- Graphic Design: Adobe Creative Suite - Photoshop, Illustrator, and InDesign,
- Web Design: Dreamweaver
- 2D and 3D Computer Aided Design: AutoCAD, Rhino, 3D Studio Max