

# CARLOS HENRIQUE ARAÚJO DE AGUIAR

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## EDUCATION

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### **Doctor of Philosophy | Design & Human Behavior.**

*Cornell University, College of Human Ecology – Design + Environmental Analysis. Ithaca, NY. (May, 2020).*

*Minor: Science and Technology Studies, and Information Science*

### **Doctor of Philosophy | Planning, Design and Built Environment**

*Clemson University, College of Architecture, Arts and Humanities. Clemson, SC. (Transferred to Cornell University, 2016)*

### **Master Science | Design Computing**

*University of Washington, College of Built Environment. Seattle, WA. (2017)*

### **Bachelor | Architecture and Urbanism**

*Universidade Estácio de Sá, School of Architecture and Urban Planning. Rio de Janeiro, Brazil. (2012)*

## RESEARCH EXPERIENCE

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### **Ph.D. research, Cornell University (2015-2020)**

*Project: communiT– a large-scale, cyber-physical artefact, designed to create community engagement and promote civic discourse in underused public spaces.*

*Roles: user studies, co-design activities, design, to-scale and full-scale prototyping, conference paper & proposal writing.*

*Committee: Keith Green (advisor), Trevor Pinch (STS minor), Gilly Leshed (IS minor), Jon McKenzie.*

*Grant: Lee Gift Research Grant, Cornell \$10,000 to support pilot research.*

### **Research Assistant, Architectural Robotic Lab, Cornell University (2015-2020)**

*Project: home+, a distributed, assistive technology facilitating aging in place.*

*Roles: user studies, design, full-scale prototyping, circuit design and assembly.*

*Principal Investigator: Keith Green.*

*Grant: home+ project Funded by U.S. NSF Grant*

### **M.Sc. research, University of Washington (2015-2017)**

*Project: Configurable Space– Architectural Robotics at the Scale of Furniture.*

*Roles: user studies, design, to-scale and full-scale prototyping, circuit design and assembly, conference paper writing.*

*Committee: Brian Johnson (advisor), Kimo Griggs (co-advisor) and Keith Green (external committee member).*

## PUBLICATIONS

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### **Peer Reviewed Papers in Conference Proceedings**

[5] Xu, Tong; Dewey, Clara; Vira, Amil; **de Aguiar, C. H.**; Yoon, JungKyoan. (2019). Erglove: an ergonomic solution for wrist injury prevention. IASDR 2019 Conference, at Manchester, UK.

[4] **de Aguiar, C. H.**, Leshed, G., Bernard, A., McKenzie, J., Andrews, C., Green, K. (2018). CoDAS, a Method for Envisioning Larger-Scaled Computational Artifacts Connecting Communities. IEEE Universal Village, Boston USA.

[3] Bernard, A., **de Aguiar, C. H.**, Green, K. (2018). Model for a Rigid, 3D Mechanism Inspired by Pop-Up Origami, and its Application to a Re-configurable, Physical Environment. IEEE CASE, at Munich, Germany.

[2] Verma, S., Gonthina, P., Hawks, Z., Nahar, D., Brooks, J., Walker, I., Wang, Y., **de Aguiar, C. H.**, Green, K. (2018). Design and Evaluation of Two Robotic Furnishings Partnering with Each Other and Their Users to Enable Independent Living. Pervasive Health, at New York, USA.

[1] **de Aguiar, C. H.**, Fateminasab, R., Frazelle, C., Schott, R., Wang, Y. Wooten, M., Green, K., Walker, I. (2016). The Networked, Robotic home+ Furniture Suite: A Distributed, Assistive Technology Facilitating Aging in Place. IEEE CASE 2016, At Fort Worth, Texas, USA, Volume: pp. 1067-1072

#### **Peer Reviewed Papers for Workshop and Late-Breaking Session**

[5] **de Aguiar, C. H.** (2018). transFORM -- A Cyber-Physical Artefact Augmenting Social Interaction in Residual Public Spaces. TEI 2019 Proceedings, Graduate Student Consortium, at Temper, USA.

[4] Choueiri, M., Duffy, S., Guria, S., McCarthy, C., Moure, P., Todalbagi, A., Wang, Y., **de Aguiar, C. H.**, Green, K. (2018). Can Interactive Systems Be Designed for Conviviality? A Case Study. DIS 2018 PWiP, at Hong Kong, China.

[3] **de Aguiar, C. H.**, Green, K. (2018). transFORM - A Cyber-Physical Environment Increasing Social Interaction and Place Attachment in Underused, Public Spaces. DIS 2018 PWiP, at Hong Kong, China.

[2] **de Aguiar, C. H.**, Bernard A., Green, K. (2018). EnAct – A Cyber-Physical Environment Increasing Social Interaction and Place Attachment in Underused Outdoor Spaces. CHI 2018, HCI Outdoors Workshop, at Montreal, Canada.

[1] **de Aguiar, C. H.** (2016). EnAct. A Responsive, Cyber-physical Architecture as Social Activator of Informal Gathering Spaces in the City. archi-Doct Journal, Transformable Architecture, 7th edition.

#### **FELLOWSHIP AND AWARDS**

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**\$25,425,00.** Home Economics Extension, Butts, Orrilla Wright Memorial, Jean Failing, Dimelow, Grace C and Virginia F. Cutler Fellowships (Graduate), College of Human Ecology, Cornell University. Award in recognition of academic records. Fall 2019.

**\$5,568,00.** Dimelow, Grace C Scholarship (Graduate), College of Human Ecology, Cornell University. Award in recognition of academic records. Summer 2018.

**\$16,350,00.** International Student Tuition Waiver, University of Washington. Spring 2017.

#### **TEACHING EXPERIENCE**

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##### **Teaching Assistant – Applied Ergonomics**

*Cornell University, Spring 2019*

*Responsibilities:* ran sections when necessary, held office hours, assisted with weekly assignments, graded assignments and papers, and maintained the class electronic mailing list.

##### **Teaching Assistant – Interaction Design (IxD) Studio**

*Cornell University, Spring 2018*

*Responsibilities:* held design critiques, ran sections when necessary, held office hours, assisted with grading assignments.

##### **Teaching Assistant – Health Care Innovations**

*Cornell University, Spring 2018*

*Responsibilities:* graded midterms and finals, and maintained the class web and blackboard sites.

##### **Teaching Assistant - Making a Difference by Design**

*Cornell University, Fall 2016*

*Responsibilities:* ran weekly sections, held design critique, held office hours, and graded assignments.

**Teaching Assistant - Human Centered Design Methods**

*Cornell University, Fall 2016*

*Responsibilities:* held design critique, held office hours, ran sections when necessary, graded and assisted with weekly assignments and quizzes.

**Instructor - Architecture Communication (Studio)**

*Clemson University - Spring 2016*

*Responsibilities:* designed and ran sections, held desk critique and design review, held office hours, and graded design projects.

**Instructor - Architectural Portfolio (Lecture)**

*Clemson University - Fall 2015*

*Responsibilities:* designed and ran weekly sections, held design critique, held office hours, and graded assignments.

**SOCIAL MEDIA**

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Personal Website: <https://www.carlosaguiar.org>

ACM DL profile: [https://dl.acm.org/author\\_page.cfm?id=99659277311](https://dl.acm.org/author_page.cfm?id=99659277311)

Research Gate profile: [https://www.researchgate.net/profile/Carlos\\_De\\_Aguiar](https://www.researchgate.net/profile/Carlos_De_Aguiar)

LinkedIn profile: <https://www.linkedin.com/in/carloshenriqueaa/>

Interview to the School of Human Ecology, Cornell University:

<https://www.youtube.com/watch?v=A6i3uXiyB6w>