

Matteo Zallio, M.Arch, Ph.D.

CURRENT POSITIONS

FROM AUGUST 2020 TO PRESENT: MARIE CURIE SENIOR RESEARCH FELLOW

Inclusive Design Group - Department of Engineering - University of Cambridge - UK.

FROM JANUARY 2021 TO PRESENT: ADJUNCT PROFESSOR

Adjunct Professor University of Genova - Italy.

FROM SEPTEMBER 2020 TO PRESENT: CHAIRMAN NSAI-TC321

Chairman for the ISO standard **NSAI-TC321 (National Standard Authority of Ireland)** - Universal Design and Ageing Societies Technical Committee - Dublin - Ireland.

PREVIOUS ACADEMIC POSITIONS

FROM JUNE 2019 TO AUGUST 2020: REPRESENTATIVE NSAI-TC321

representative and coordinator for the ISO standard **NSAI-TC321 (National Standard Authority of Ireland)** - Universal Design and Ageing Societies Technical Committee - Dublin - Ireland.

FROM JANUARY 2020 TO JANUARY 2021: ADJUNCT PROFESSOR

Adjunct Professor in User Experience Design for Executive MBA, graduate and undergraduate students at **INSEEC University** - San Francisco - USA.

FROM JULY 2019 TO JULY 2020: USER EXPERIENCE DESIGN RESEARCHER

Autonomous Systems Laboratory - Stanford University - USA.

FROM SEPTEMBER 2018 TO JUNE 2019: FULBRIGHT RESEARCH FELLOW

Fulbright researcher at the Center for Design Research - School of Mechanical Engineering - Stanford University - USA.

FROM JANUARY 2019 TO MARCH 2019: TEACHING ASSISTANT

Stanford University - ENGR110/210: Perspectives in Assistive Technology [Lecturer: David L. Jaffe].

FROM SEPTEMBER 2017 TO JUNE 2018: ASSISTANT LECTURER

Assistant Lecturer in Technical Drawings and Autocad (BE in Engineering & BEngTech in EEE) at the **Technological University Dublin** - Ireland.

FROM JANUARY 2016 TO SEPTEMBER 2018: POSTDOCTORAL RESEARCH FELLOW

A. Graves fellowship in User Experience Design & Assistive Technology at the **School of Electrical and Electronic Engineering** - ESHI Department - **Technological University Dublin** - Ireland.

FROM OCTOBER 2016: GUEST LECTURER

Invited guest lecturer - **University of California Berkeley** - California - USA.

Guest lecturer - **INSEEC University San Francisco** - California - USA.

Invited guest lecturer in Age-Friendly Design at **Cheminade University at Honolulu** and **University of Hawai'i at Mānoa - School of Architecture and Center on Aging** - Hawai'i - USA.

Invited guest lecturer in Research Design and Methodology at the **North Carolina State University - School of Architecture - College of Design** - North Carolina - USA.

Invited guest lecturer in Inclusive Design and Ergonomics at the **Universidad de Guadalajara** - Mexico.

Invited guest lecturer in Human Computer Interaction and UX Design at the **Loughborough Design School**, Loughborough University - United Kingdom.

FROM JANUARY 2012 TO APRIL 2015: PHD RESEARCHER

Department of Sciences for Architecture - University of Genova - Italy.

FROM SEPTEMBER 2014 TO DECEMBER 2014: VISITING PHD RESEARCHER

Loughborough Design School - Environmental Ergonomic Research Centre - **Loughborough University** - United Kingdom.

FROM SEPTEMBER 2013 TO JUNE 2014: TEACHING ASSISTANT

University of Genova - **Materials and Components for Industrial Design** [Prof. N. Casiddu].

University of Genova - **Product Design Lab.** (Ba Degree) [Prof. M.B. Spadolini].

University of Genova - **Product Design Lab.** (Ma Degree) [Prof. N. Casiddu].

FROM SEPTEMBER 2012 TO JUNE 2013: TEACHING ASSISTANT

University of Genova - **Product Design Lab.** (Ba Degree) [Prof. M.B. Spadolini].

University of Genova - **Product Design Lab.** (Ma Degree) [Prof. N. Casiddu].

University of Genova - Module's Tutor in **Computer Aided Design** [Prof. A. Vian].

Matteo Zallio, M.Arch, Ph.D.

EDUCATION

FROM JANUARY 2012 TO APRIL 2015: EUROPEAN PH.D. IN UX-INDUSTRIAL DESIGN

Department of Sciences for Architecture - University of Genova - Italy.
Ph.D. Evaluation: Excellent.

12 JULY 2011: ARCHITECT REGISTRATION EXAMINATION

Qualification as licensed Architect - Italy.

FROM OCTOBER 2005 TO MARCH 2011: MASTER DEGREE IN ARCHITECTURE

Final evaluation: 110/110 cum Laude. Faculty of Architecture - University of Genova - Italy.

FROM SEPTEMBER 2000 TO JUNE 2005: HIGH SCHOOL

High school diploma - Liceo Scientifico "G. Galilei" Alessandria - Italy.

RESEARCH ACTIVITY

FROM SEPTEMBER 2019 : PRINCIPAL INVESTIGATOR

"Hands-on-SHAFE: Training packages for unemployed people". EU-Funded Erasmus+ Project, Technological University Dublin - Ireland.

FROM MARCH 2019: PRINCIPAL INVESTIGATOR

"EU SHAFE: European Smart Healthy Age-Friendly Environments". EU-Funded INTERREG Project, Technological University Dublin - Ireland.

FROM MAY 2017 TO PRESENT: PRINCIPAL INVESTIGATOR

"TAILT: The world's first interactive safety system designed for all cyclists", Technological University Dublin, Déan Design Lab - Dublin - Ireland.

FROM JANUARY 2017 TO JANUARY 2018: PRINCIPAL INVESTIGATOR

"The Community-supported CapAble microwave oven", Technological University Dublin, Saint John of God Community - Dublin - Ireland.

FROM MAY 2016 TO JANUARY 2018: RESEARCH COORDINATOR

"BeAlive. Outdoor exercise machines", Technological University Dublin, Dublin City Council - Ireland.

FROM JULY 2016 TO JANUARY 2017: TEAM RESEARCH PROJECT - COMPETITION

Finalist: "Design Competition Cornigliano Genoa", CIG5493122BA - Archimede&Studio BluGenova.

FROM JANUARY 2013 TO SEPTEMBER 2014: RESEARCH COLLABORATOR

"Smart home for independent and active longevity", University of Genova, INRCA & Marche Region - Italy.

FROM JANUARY 2012 TO MARCH 2014: RESEARCH COLLABORATOR

"3A-Assisted Environment for Older and People with Disabilities", University of Genova, eResult srl, Finabita spa, Consorzio AbitCoop Liguria - Italy.

FROM JANUARY 2012 TO DECEMBER 2013: RESEARCH COLLABORATOR

"S.H.E.L.L. project: a Secure Habitat for an Enhanced Long Living". Funding: Made in Italy, EE/MS/MI - Program MI01_0030, Budget:

ACHIEVEMENTS

SELECTED PATENTS AND INVENTORSHIPS

- Zallio M. (2013) Robot for housing assistance - Robot for monitoring system N° 002295857-001/002 in collaboration with Istituto Superiore Sant'Anna - Pisa & MetraLabs GmbH Neue Technologien Germany.

AWARDS AND GRANTS

- Awarded with the Marie Skłodowska-Curie Individual Fellowship from European Commission (2020).
- Awarded with the Fulbright-Schuman grant from the U.S. Government (2018).
- Maino Day Award from the CVA (Circolo Velocipedisti Alessandrino) and "Il Piccolo" newspaper (2018).
- Future Leading Lights Award from the Irish Road Safety Authority for the development of "TAILT" (2017).
- Awarded with the Enterprise Ireland Innovation Voucher N°: IV2017-2174 Funding Entrepreneurship Scheme for TAILT: The responsive bicycle safety system (2017).
- Emerging Scholar Award from the International Conference on Design Principles and Practices – George Brown College, Toronto CA (2017).
- Awarded with the bursary from the National Health Informatics Society of Ireland (2016).
- First prize: National Italian Award "ETIC" from AICA (Italian Association for Computer and Automatic Calculation) and Rotary International (2016).
- First prize: The Best Innovative Research Idea, at the Fifth Italian Conference on Ambient Assisted Living – ForItAAL (2014).
- Awarded with Full Scholarship for PhD research, from University of Genova - Italy (2012).

PUBLICATIONS

SELECTED PUBLICATIONS

- **Zallio M.** (2020). **Advances in Human Factors in Robots, Drones and Unmanned Systems.** Proceedings of the AHFE 2020 Virtual Conference on Robots, Drones and Unmanned Systems, July 16-20, 2020, USA.
- **Zallio M., Berry D., McGrory J.** (2020). **How to democratize Internet of Things devices. A participatory design study to improve digital literacy.** In: Di Bucchianico G., Kercher P., Advances in Design for Inclusion. AHFE 2020. Advances in Intelligent Systems and Computing. Springer, International Conference on Applied Human Factors and Ergonomics, 16-20 July 2020, USA.
- **Zallio M.** (2019). **Design, emotions and wearable devices.** DIID Journal (Disegno Industriale, Industrial Design), Issue N°67/19. Design and Technologies - Design, robotics and machines in the post-human age. ISSN: 1594-8528, ISBN: 9788832080209.
- **Zallio M., Fisk M.J.** (2019). **Smart Homes.** In: Gu D., Dupre M. (eds) Encyclopedia of Gerontology and Population Aging. Springer, Cham.
- **Zallio M., Berry D., Leifer L.J.** (2019). **Meaningful Age-Friendly Design. Case studies on enabling assistive technology.** In Ahrum T., Falcao C. (eds) Advances in Usability and User Experience. AHFE 2019. Advances in Intelligent Systems and Computing, vol 972. Springer, Cham. DOI.ORG/10.1007/978-3-030-19135-1 _ 76.
- **Mincoletti G., Imbesi S., Zallio M.** (2019). **Collaborative Quality Function Deployment. A methodology for enabling Co-design research practice.** In Di Bucchianico G., (eds) Advances in Design for Inclusion. AHFE 2019. Advances in Intelligent Systems and Computing, vol 954. Springer, Cham. DOI.ORG/10.1007/978-3-030-20444-0 _ 9.
- **Fernandez-Rivera C. M., Aceves-Gonzalez C., Zallio M., Mireles-Ramirez M.** (2019). **Inclusive Healthcare waiting rooms: A comparison study for improving user experience within built environment.** In Charytonowicz J, Falcao C. (eds) Advances in Human Factors in Architecture, Sustainable Urban Planning and Infrastructure. AHFE 2019. Advances in Intelligent Systems and Computing, vol 966. Springer, Cham. DOI.ORG/10.1007/978-3-030-20151-7 _ 15.
- **McGrory J., Arribas Velasco A., Zallio M.** (2018). **Connectivity & collaboration is about inclusion.** Proceedings of SEEDS - Sustainable Ecological Engineering Design for Society- conference, Dublin Institute of Technology, 6-7 September 2018, Dublin - Ireland.
- **Kelly P., Zallio M., Duarte B., Berry D.** (2018). **Design for Enabling Technologies. A Framework to Empower Multi-level User Engagement.** In: Di Bucchianico G. Advances in Design for Inclusion. AHFE 2018. Advances in Intelligent Systems and Computing, vol 776. Springer, International Conference on Applied Human Factors and Ergonomics, 21-25 July 2018, Orlando, Florida, USA. ISBN: 978-3-319-94621-4.
- **Zallio M., Berry D.** (2018). **Computer Aided Drawing software delivered through Emotional Learning. The use of Emoticons and GIFs as a tool for increasing student engagement.** Proceedings of the 32nd International BCS Human Computer Interaction Conference (HCI 2018), 4 - 6 July 2018, Belfast, UK.
- **Mccalmon G., Zheng H., Wang H., Mcclean S., Zallio M., Berry D.** (2018). **A Lightweight Classification Algorithm for Human Activity Recognition in Outdoor Spaces.** Proceedings of the 32nd International BCS Human Computer Interaction Conference (HCI 2018), 4 - 6 July 2018, Belfast, UK.
- **Zallio M., Rifai H., Kelly P., Shoji Y., Berry D.** (2018). **Human Activity Detection Patterns: A Pilot Study for Unobtrusive Discovery of Daily Working Routine.** In: Karwowski W., Ahrum T., Intelligent Human Systems Integration. IHSI 2018. Advances in Intelligent Systems and Computing, vol 722. Springer, ISBN 9783319738871.
- **Zallio M., McGrory J., Berry D.** (2017). **IoT Based Recipes for Enabling Senior Citizens: Stakeholders Views on How Integration of IoT and Web Services Can Enhance Well-Being and Inclusion of Older People.** In: Di Bucchianico G., Kercher P., Advances in Design for Inclusion. AHFE 2017. Advances in Intelligent Systems and Computing, vol 587. Springer, International Conference on Applied Human Factors and Ergonomics, 17-21 July 2017, Los Angeles, CA, USA. ISBN: 9783319605968.
- **Zallio M., Berry D.** (2017). **Design and Planned Obsolescence. A review of theories and approaches impacting on Enabling Technologies,** The Design Journal, An International Journal for All Aspects of Design, Volume 20, 2017. Design for Next: Proceedings of the 12th European Academy of Design Conference, Sapienza University of Rome, 12-14 April 2017, ISSN: 1460-6925
- **Zallio M., Berry N., Casiddu N.** (2016). **Adaptive homes for enabling senior citizens: A holistic assessment tool for housing design and IoT-based technologies,** proceedings of the IEEE 3rd World Forum of Internet of Things (Wf-IoT), 12-14 December 2016, Reston VA, USA ISBN: 9781509041305.
- **Zallio M., Casiddu N.** (2016). **Lifelong Housing Design: User feedback evaluation of smart objects and accessible houses for healthy ageing,** proceedings of the 9th ACM International Conference on Pervasive Technologies Related to Assistive Environments PETRA, Corfù, Greece, 29 June-1 July 2016. ACM NY, USA, ISBN: 9781450343374.
- **Zallio M., Kelly P., Jakuska M., Rifai H., Berry D.** (2016). **Design of a community-supported CapAble microwave system for people with intellectual and physical disabilities,** in Lectures Notes in Electrical Engineering, N° 426, proceedings of the 7th AAL - Italian forum 2016, Pisa, Italy 20-23 June 2016. Springer Switzerland: ISBN: 9783319542829.

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SELECTED PUBLICATIONS

- **Zallio M., Casiddu N.** (2015). **Environment Design Sustaining Users: Lifelong Housing Design**, proceedings of the 6th AAL - Italian forum 2016, Lecco, Italy 19-22 May 2016, p. 69-72. Springer Switzerland: ISBN: 97888894097702.
- **Zallio M.** (2015). **Environment Design Sustaining Users: The Housing Design in Ambient Assisted Living**, PhD dissertation, April 2015.
- **Casiddu N., Porfirione C., Zallio M.** (2015). **Design of a secure habitat for an enhanced long living: case study - S.H.E.L.L. project**, proceedings of the 5th AAL - Italian Forum 2014, Catania, 2 - 5 September 2014, p. 397- 406, Springer International Publishing Switzerland 2015. ISBN: 9783319183732.
- **Casiddu N., Cesta A., Cortellessa G., Orlandini A., Porfirione C., Divano A., Micheli E., Zallio M.** (2015). **Robot Interface Design: The Giraff Telepresence Robot for Social Interaction**, proceedings of the 5th AAL - Italian Forum 2014, Catania, 2 - 5 September 2014, p. 499 – 509, Springer International Publishing Switzerland 2015. ISBN: 9783319183732.
- **Casiddu N., Porfirione C., Zallio M.** (2014). **Designing the Sense-Able Home**, proceedings of the 5th STS Italian Conference, Milan, 12 – 14 June 2014, p. 1325 – 1341, STS Italia Publishing, 2014. ISBN: 9789078146056.
- **Zallio M.** (2014) **Robot Interface Design Workshop in Genoa**. In *Abitare&Anziani*, 1/2014 *Abitare&Anziani* n°15 ISSN: 2037-1594.
- **Casiddu N., Cavallo F., Micheli E., Zallio M., Dario P.** (2014). **Robot Interface Design of domestic and condominium robot for ageing population**, proceedings of the 4th AAL - Italian Forum 2013, Ancona, 23-25 October 2013. Springer International Publishing Switzerland 2014. ISBN: 9783319011189.
- **Zallio M.** (2013). **Housing & telepresence**. In: *N. Casiddu, E. Micheli*, *Human Centered Robotic Design*, pg. 124-134, Firenze, Alinea Editrice, ISBN: 9788860556707.
- **Zallio M.** (2013). **Home automation and technology: renewal of existing buildings**. In: *M. Benedetta Spadolini*, *Design for better life. Longevità: scenari e strategie*, pg. 102-110, Milano, Franco Angeli, ISBN: 9788820421229.

ACADEMIC ACTIVITIES

ACADEMIC ACTIVITIES - EXPERT MEMBERSHIPS

- December 2019-2021: **Expert Reviewer** Fulbright fellowship 2020-2021 European applicants.
- December 2019: **Chair** Human Factors in Robots, and Unmanned Systems at AHFE International.
- November 2019: **Editorial Review Board Member** International Journal of Art, Culture and Design Technologies (IJACDT).
- November 2019: **Expert Reviewer** for the scientific journal Human-Intelligent Systems Integration (HISI) edited by Springer Nature.
- August 2019: **Member of the jury panel** for the 2019 SAGE Global Challenge for young entrepreneurs University of California Berkeley.
- June 2019: **Chairman** of the NSAI/TC 023/SC 06 "Ageing societies" (WG 1/WG 2/WG 3), Irish National Mirror Committee for the ISO-TC 314 and **Member** of the Universal Design Standards Consultative Committee.
- June 2019: **Expert Advisor** at Open Ideo - San Francisco on design for healthy behavior.
- April 11-13, 2019: **Mentor** at the Innovation Days San Francisco on MicroMobility.
- March 2019: **Expert reviewer** for the Journal of Cross-Cultural Gerontology - Springer.
- February 2019: **Communication Manager** Conference on Applied Human Factors and Ergonomics - AHFE International.
- February 2019: **Expert Member** for the Irish Mirror Committee NSAI/TC 021 "Health Informatics".
- October 2018: **Expert Reviewer** for the Technology, Architecture, Design Journal. Taylor & Francis.
- October 2018: **Expert Member** for the Irish Mirror Committee NSAI/TC 023/SC 06 "Ageing Societies" (WG 1/WG 2).
- June 2018: **Co-supervisor** Master Thesis student Claudia Fernandez, Universidad de Guadalajara, Mexico.
- September 2017: **Expert Reviewer** for the Common Ground Publishing journals - The Design Collection.
- September 2017: **Co-Supervisor** PhD Student Mr. Hicham Rifai, **Advisor** PhD students Mr. Aitor Arribas-Velasco, Ms. Rashmi Bakshi.
- July 2017: **Scientific Advisory Board Member** - International Conference on Applied Human Factors and Ergonomics - AHFE.
- July 2017: **Expert Reviewer** for the Official Journal of the Chartered Institute of Ergonomics and Human Factors. Taylor and Francis - UK .
- May 2017: **Expert Reviewer** for the International Journal of Art, Culture and Design Technologies (IJACDT) - IGI Global Publishing Editor.
- 2016 to 2018: **Representative of Postdoc Researchers** in the College Research & enterprise Committee - Dublin Institute of Technology.
- 2016-2017: **Representative Member** COST ACTION IC1303: Algorithms, Architectures & Platforms for Enhanced Living Environments (AAPELE).
- April 2016: **Full Professional Membership** - Interaction Design foundation.
- 2016, 2017, 2018, 2019: **Chair** at the European Forum on AAL - (2016 :St. Gallen - Switzerland, 2017: Coimbra - Portugal, 2018: Bilbao - Spain, 2019: Aarhus - Denmark).