Hyosun Kwon_CV

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RESEARCH INTEREST

Computer-Mediated Living, Human-Computer Interaction, Design Ethnography, Ritual Design, Design for Digital Gifting, Interaction Design, Experience Design, Tangible User Interaction, Industrial Design,

WORK EXPERIENCE

07. 2018 - Present	**Lecturer in Product Design and Technology (equivalent to Assist. Professor in U.S. system)** School of Design and Creative Arts, Loughborough University, UK
01. 2018 – 06. 2018	**Research Fellow** Mixed Reality Lab, School of Computer Science, University of Nottingham, UK
09. 2016 – 12. 2017	**Research Associate** Mixed Reality Lab, School of Computer Science, University of Nottingham, UK
07. 2014 - 10. 2014	**Research Intern (**Mentor: Natasa Milic-Frayling) Microsoft Research Cambridge, Cambridge, UK In Integrated Systems team, part of Computer-Mediated Living Group
08. 2012 - 02. 2013	**Visiting Member** Culture Lab (currently: Open Lab) Newcastle University, UK

EDUCATION

2013 - 2017	**PhD in Computer Science** Thesis: "From Ephemerality to Delicacy: Applying Delicacy in the Design Space of Digital Gifting" (External Examiner: Professor David Kirk) Mixed Reality Lab, School of Computer Science, University of Nottingham (Supervisor: Dr. Holger Schnadelbach, Prof. Steve Benford, Prof. Boriana Koleva)
2010 - 2012	**MSc in Industrial Design** Thesis: "Inflated Roly-Poly: Designing an Inflated Display Enticing Physical Interaction" Department of Industrial Design, Korea Advanced Institute of Science and Technology, South Korea (Supervisor: Dr. Woohun Lee)
2007 - 2008	Student Exchange Program in Faculty of Design Politecnico di Milano, Italy
2005 - 2010	**BSc in Industrial Design, Cum Laude** Department of Industrial Design, Korea Advanced Institute of Science and Technology, South Korea

RESEARCH PROJECT

11. 2019 - Present EPSRC	**Hybrid Gifts (EP/S027440/1)** https://gow.epsrc.ukri.org/NGBOViewGrant.aspx?GrantRef=EP/S027440/1 Lead Organisation: University of Nottingham, School of Computer Science Funding Amount: £ 570K (USD 727K) Funding period: 1 Nov 2019 – 29 April 2022 Role: Co-I (Loughborough PI) Contribution: Project management, Supervising one RA, Design and Prototyping
06. 2017 - 06. 2018 EPSRC	**Prototyping Open Innovation Models for ICT-Enabled Manufacturing in Food and Packaging (EPSRC, EP/K014234/2)** https://gow.epsrc.ukri.org/NGBOViewGrant.aspx?GrantRef=EP/K014234/2 Lead Organisation: Royal College of Art, School of Design Award Value: £1,673,747 Funding period: 03 January 2014 – 01 August 2018 Role: Research Associate/Fellow Contribution: Design and study
09. 2016 – 06. 2018 EPSRC	**Ubiquitous Computing Enabled Design (EPSRC, EP/N005945/1)** https://gow.epsrc.ukri.org/NGBOViewGrant.aspx?GrantRef=EP/N005945/1 Lead Organisation: Imperial College London, Dyson School Award Value: £ 295,395 Funding period: 01 February 2016 – 31 July 2017 Role: Research Associate/Fellow Contribution: Designed prototypes for deployment and conducted field studies. Organised design workshops with design engineers and HCI practitioners.
04. 2016 - 12. 2016 Horizon Digital Economy Research Institute	**BBC Media Gifting (In partnership with BBC R&D)** Contribution: Knowledge of digital gifting and expertise in using physical media to enhance the process – contribution to user engagement activities and design.
09.2011 - 02.2012 KAIST	**Propose interaction model and user scenarios for projection computer (In partnership with ETRI)** Contribution: Generate ideas on interaction model and scenarios. Conducted user test.
07. 2010 - 12. 2010 KAIST	**Designing wearable projection computer and user scenarios (In partnership with ETRI)** Contribution: Idea generation and design.

PUBLICATION

2020	Boriana Koleva, Jocelyn Spence, Steve Benford, **Hyosun Kwon**, Holger Schnädelbach, Emily Thorn, William Preston, Adrian Hazzard, Chris Greenhalgh, Matt Adams, Ju Row Farr, and Nick Tandavanitj. Designing Hybrid Gifts. ACM Trans. Comput.-Hum. Interact. 27, 5, Article 37 (October 2020), 33 pages. DOI:https://doi.org/10.1145/3398193
2019	Andy Crabtree, Lewis Hyland, James Colley, Martin Flintham, Joel E Fischer, and **Hyosun Kwon**. 2019. Probing IoT-based consumer services: 'insights' from the connected shower. Personal and Ubiquitous Computing. https://doi.org/10.1007/s00779-019-01303-3

Kyung Jin Kim, Sangsu Jang, Bomin Kim, **Hyosun Kwon**, Young-Woo Park. 2019. muRedder: Shredding Speaker for Ephemeral Musical Experience. In Proceedings of the 2019 Conference on Designing Interactive Systems (DIS '19). ACM, June 23–28, 2019, San Diego, CA, USA. https://doi.org/10.1145/3322276.3322362 [Paper] (Honourable Mention Award, top 2%)

Kyung Jin Kim, Sangsu Jang, Bomin Kim, **Hyosun Kwon**, Young-Woo Park. 2019. muRedder: Shredding Speaker for Ephemeral Musical Experience. DIS '19 Companion, June 23–28, 2019, San Diego, CA, USA. https://doi.org/10.1145/3301019.3325161 [Demo]

2018   **Hyosun Kwon,** Joel E. Fischer, Martin Flintham, and James Colley. 2018. The Connected Shower: Studying Intimate Data in Everyday Life. Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 2, 4, Article 176 (December 2018), 22 pages. DOI: https://doi.org/10.1145/3287054

2017   **Hyosun Kwon**, Holger Schnädelbach, Boriana Koleva, Steve Benford, Tom Schofield, Guy Schofield, Maho Oki, Koji Tsukada, Daniel Harrison, Richard Banks, Tim Regan, and Martin Grayson. 2017. Demo hour. interactions 24, 5 (August 2017), 8-11. DOI: https://doi.org/10.1145/3125631

        Hyosun Kwon, Holger Schnädelbach, Boriana Koleva, Steve Benford
        Delicate Hybrid Gift. In Proceedings of the 3rd Biennial Research Through Design Conference. Figshare, https://doi.org/10.6084/m9.figshare.4746946.v1
        - Role: Research lead (Design, study, and paper writing).

        Hyosun Kwon, Boriana Koleva, Holger Schnädelbach, Steve Benford
        "It's Not Yet A Gift": Understanding Digital Gifting. In Proceedings of the ACM 2017 conference on Computer Supported Cooperative Work (CSCW '17). ACM, DOI: http://dx.doi.org/10.1145/2998181.2998225
        - Role: Research lead (Research design, conduct study, and paper writing)

2015   **Hyosun Kwon**, Shashank Jaiswal, Steve Benford, Sue Ann Seah, Peter Bennett, Boriana Koleva, and Holger Schnädelbach.
        FugaciousFilm: Exploring Attentive Interaction with Ephemeral Material. In Proceedings of the 33rd Annual ACM Conference on Human Factors in Computing Systems (CHI '15). ACM. DOI: https://dl.acm.org/doi/10.1145/2702123.2702206
        -- Role: Research lead (Research design, conduct study, and paper writing). Technical implementation supported by the second author.

2014   Hazzard, Adrian and Benford, Steve and Chamberlain, Alan and Greenhalgh, Chris and **Kwon, Hyosun** (2014) Musical intersections across the digital and physical. In: DMRN+9: Digital Music Research Network (EPSRC), December 2014, London.

        Hyosun Kwon
        "Proposing Reverse Tangible Interaction Design", (Doctoral Consortium) In Proceedings of the 8th ACM International Conference on Tangible, Embedded and Embodied Interaction (TEI '14). DOI: https://doi.org/10.1145/2540930.2558134

2013   **Hyosun Kwon**, Hwan Kim, and Woohun Lee
        "Intangibles Wear Interactivity via Material Composition", Personal and Ubiquitous Computing (PUC), Special theme issue "Material Interactions". Springer.
        DOI: https://link.springer.com/article/10.1007%2Fs00779-013-0688-5
        - Role: Research lead (Research design, conduct study, and paper writing).

Hyosun Kwon, Jo Briggs, Ben Freeth, Karim Ladha, James Thomas, Mark Blythe, Patrick Olivier
"Wet pixels: from digital to analogue originals", In CHI '13 Extended Abstracts on Human Factors in Computing Systems (CHI EA '13). ACM,
DOI: https://dl.acm.org/doi/10.1145/2468356.2468459
- Role: Research lead (Design exploration, paper writing).

2012   **Hyosun Kwon**, Seok-Hyung Bae, Hwan Kim, and Woohun Lee
"Inflated Roly-Poly", In Proceedings of the sixth international conference on Tangible, embedded, and embodied interaction (TEI '12). ACM, Kingston, Ontario, Canada
DOI: https://doi.org/10.1145/2148131.2148172
- Role: Research lead (Design, conduct study, and paper writing). The second author supported idea development and the third author supported technical implementation.

TEACHING/SUPERVISION

- PhD student: Freya Probst (started 2019 April, co-supervising with Prof Cees de Bont)
- Advised 3 UX Master major projects
- Examined Master's Thesis (Kyung-Jin Kim from UNIST, Graduate School of Creative Design Engineering)
  Title: "muRedder: A Song Ticket Shredding Speaker for Ephemeral Music Contents"

Lectures

2019/20	User Centred Design Practice 2, Loughborough University 30 credit. Tutorial
2018/19, 2019/20	Industrial Design Studies 2, Loughborough University 30 credit. Lecture title: Physical Computing for Product Design Methods: Lecture, Lab, and Tutorial
2014, 2015, 2016	New Media Design (G53NMD UK), (University of Nottingham) Dr. Stefan Rennick Egglestone Role: PhD Teaching Assistant Contribution: Assist students in GUI design. Marking course works.

WORKSHOPS AND TALKS

2017	Organised of a design workshop on Ubiquitous Computing Enabled Design at Mixed Reality Lab, University of Nottingham (In collaboration with Imperial College London)
2017	Invited Seminar Talk at UNIST (Ulsan National Institute of Science and Technology) on Digital Gifting
2016	Participated and presented PhD research in a forum 'PhD by Design' where to discuss issues of conducting a practice-based PhD in design. The event was held during Design Research Society conference (DRS) 2016, Brighton, UK

GRANTS AND AWARDS

2019	Honourable Mention Award (ACM DIS 2019)
2018	NRF Early Career Research Fellowship (150,000K won/3years) - Declined the offer
2015	Travel Grant (£1,500 awarded by University of Nottingham)
2013 - 2016	PhD Scholarship (3 year Fully-funded by University of Nottingham)

02.2012	Best Master's Thesis Award
	"Inflated Roly-Poly: Designing an Inflated Display Enticing Physical Interaction"
	Department of Industrial Design, Korea Advanced Institute of Science and Technology
02. 2010	Grand Prix | Undergraduate Research Program Competition (URP)
	"Designing Interactive Tangible Media for Artistic Representation of Digital Image"
	Korea Advanced Institute of Science and Technology
2010 - 2012	National Science and Engineering Graduate Research Scholarship
2005 - 2010	National Science and Engineering Undergraduate Scholarship

PROFESSIONAL SERVICES

ACM conference reviewer / Associate Chair
CHI 2020 Papers Reviewer
DIS 2020 Pictorials Reviewer
CHI 2019 Papers Reviewer
DIS 2019 Papers Reviewer
TEI 2015 Paper Session AC
PUC Journal Reviewer
UIST 2014 Paper Reviewer