

EDUCATION

University of Washington College of Engineering PhD in Human Centered Design & Engineering MS in Human Centered Design & Engineering	Seattle, WA June 2019 2013
Northwestern University Medill School of Journalism Bachelor of Science in Journalism & International Studies	Evanston, IL 2006
University of Copenhagen Danish Institute for Study Abroad EU Politics program	Copenhagen 2004

TEACHING EXPERIENCE

Instructor – Dept. of Human Centered Design & Engineering	2018 – present
<i>Foundations of HCDE (4.6/5.0 summative rating)</i> Developed a syllabus with all course materials and taught a required 74-student design theory course in the undergraduate core curriculum emphasizing social, historical, cultural, and ethical lenses. Course emphasized the integration of reading, critical analysis, and creative practice, including speculative design techniques.	Winter 2019
<i>Living Materials Design Research Studio</i> Developed and ran a year-long weekly sustainable design research studio (DRG) for graduate and undergraduate students exploring fabrication materials, value, and tooling with traditional techniques like sketching and prototyping, as well as expanded techniques including natural history explorations, field trips, salvage, and foraging.	AY 2017/18
<i>UX Portfolio (4.9/5.0 summative rating)</i> Lecturing, leading discussion and critique, giving feedback, and grading deliverables for junior undergraduates creating their first design portfolio and job search materials. Modified curriculum with inclusive content for women and minorities, e.g. salary negotiations.	Spring 2018
<i>Mobile Health Application Design Studio</i> Developed and ran a quarter-long studio with undergraduate and graduate students to perform user research and design a mobile health app for an HIV prevention project.	Winter 2015
Teaching Assistant – Dept. of Human Centered Design & Engineering	2015 – present
<i>User Research</i> Leading 3-hour weekly user research studio workshop with 25 students with Lecturer Sarah Zuberec. Responsible for leading discussion and critique, as well as all grading for the studio section. Techniques include field research, interviewing, and surveys.	Spring 2019
<i>UX Prototyping</i> Teaching with Senior Lecturer Andy Davidson, including giving lectures, performing materials and equipment demonstrations (e.g. laser cutting, 3D printing), general studio assistance, leading discussion and critique, giving design feedback, and grading for senior undergraduate prototyping methods survey course. Modified curriculum by giving a module on prototyping theory.	Winter 2018

Qualitative Research Methods

Fall 2017

Teaching with Prof. Charlotte Lee, including leading discussion and workshops, giving feedback and direction on student ethnographic projects, and grading project milestones. Modified curriculum with a workshop module on data analysis.

Quantitative Research Methods & Experiment Design

Fall 2013

Teaching with Assoc. Prof. Kate Starbird, including giving direction and feedback on student quantitative research projects and their statistical analysis techniques.

REFEREED PUBLICATIONS

Dew, K.N. & Rosner, D.K. (2019). Designing with Waste: A Situated Inquiry into the Material Excess of Making. Accepted @ DIS 2019. San Diego, CA.

Dew, K.N., Landwehr-Sydow, S., Rosner, D.K., Thayer, A., & Jonsson, M. (2019). Producing Printability: Articulation Work and Alignment in 3D Printing. *Human-Computer Interaction*, 1-37.

****Dew, K.N.** & Rosner, D.K. (2018). Lessons from the Woodshop: Cultivating Design with Living Materials. Proceedings of ACM CHI 2018. Montreal, Quebec.

**** Honorable Mention Award (top 4% of submissions)**

Dew, K.N., Shorey, S. & Rosner, D.K. (2018). Making within Limits: Towards Salvage Fabrication. Proceedings of ACM Limits Workshop 2018. Toronto, Ontario.

Dew, K.N., Turner, A.M., Choi, Y., Bosold, A., Kirchhoff, K. (2018). Use of Machine Translation in Health Communications: A Systematic Review. *Journal of Biomedical Informatics*.

Dew, K., Turner, A.M., Desai, L., Martin, N., Laurenzi, A. Kirchhoff, K. (2015). PHAST: A Collaborative Machine Translation and Post-editing Tool for Public Health. Proceedings of the American Medical Informatics Association, San Francisco, CA.

****Chung, C.F., Dew, K., Cole, A., Zia, J., Fogarty, J., Kientz, J., Munson, S.** (2016). Boundary Negotiating Artifacts in Personal Informatics: Patient-Provider Collaboration with Patient-Generated Data. Proceedings of the ACM Computer Supported Cooperative Work Conference, San Francisco (forthcoming).

**** Best Paper Award (top 1% of submissions) & Computing Reviews' 21st Annual Best of Computing Notable Books and Articles**

Turner, A. M., **Dew, K. N.**, Desai, L., Martin, N., & Kirchhoff, K. (2015). Machine Translation of Public Health Materials from English to Chinese: A Feasibility Study. *JMIR Public Health and Surveillance*, 1(2).

Turner, A. M., Choi, Y. K., **Dew, K.**, Tsai, M. T., Bosold, A. L., Wu, S., ... & Meischke, H. (2019). Evaluating the Usefulness of Translation Technologies for Emergency Response Communication: A Scenario-Based Study. *JMIR public health and surveillance*, 5(1), e11171.

Ngure, K., Kimemia, G., **Dew, K.**, Njuguna, N., Mugo, N., Celum, C., Baeten, J.M., Heffron, R. (2016) Delivering safer conception services to HIV serodiscordant couples in Kenya: perspectives from healthcare providers and HIV serodiscordant couples. *Journal of the International Aids Society*.

Velloza, J., Ngure, K., Kiptinness, C., Quame-Amaglo, J., Thuo, N., **Dew, K.**, ... & Baeten, J. M. (2019). A clinic-based tablet application to support safer conception among HIV serodiscordant couples in Kenya: feasibility and acceptability study. *mHealth*, 5.

Dew, K., Turner, A.M., Desai, L., Martin, N., Kirchoff, K. (2015). Evaluating groupware prototypes with discount methods. Proceedings of the ACM Computer Supported Cooperative Work Conference, Vancouver.

Dew, K., Dawale, A., Fishel, C. & Haddadin, M. (2013). Karaoke: An Assistive Alternative Interface for Illiterate Mobile Device Users. Proceedings of the ACM SIGCHI 2013 Conference, Paris.

PANEL TALKS

Dew, K. “Chasing the fit: DIY housing experiments in the woodshop.” In Society for Social Studies of Science (4S) Craft as Knowledge-Making Practices Panel. 2017

Dew, K. ““There might be someone who is monitoring you’: Enacting privacy boundaries in an mHealth intervention.” In Society for Social Studies of Science (4S) Digital Subjectivities in the Global Context: New Technologies of the Self Panel. 2016

RESEARCH EXPERIENCE

Digital Humanities Summer Fellow Seattle, WA
University of Washington Walter Chapin Simpson Center Academic year (AY)
Developed a digital workbook and project archive as an exploration into alternative modes of 2018/19
communicating and circulating ethnographic and design research using contemporary digital tools.
See salvageshed.info.

Graduate Research Assistant – Explorations in Digital Craft Seattle, WA
Asst. Prof. Daniela Rosner 2016 – present
Ethnographic and design inquiry into the intersections of craft and computing ethics, including hands-on fieldwork in traditional woodworking techniques, sustainable design, and alternative fabrication methods.

Graduate Research Intern – HP Labs Palo Alto, CA
Immersive Experiences Lab Fall 2016
Developed and conducted design research and qualitative interviewing studies about digital fabrication and materials in home construction.

Graduate Research Assistant – Safer Conception Intervention for Partners Seattle, WA &
Prof. Beth Kolko & Asst. Prof. Renee Heffron Thika, Kenya
Mixed methods research, design, prototyping and development of an Android app for an mHealth AY 2015/16
intervention for HIV serodiscordant couples in Kenya who are trying to conceive a child without HIV transmission.

Research Coordinator – TransPHorm: Machine Translation for Public Health Seattle, WA
Assoc. Prof. Anne M. Turner 2013 – 16
Project management, research, grant writing, publication preparation and usability testing in support of a study of machine translation of public health materials for US populations with limited English proficiency.

Graduate Research Assistant – UW Center for Engineering Learning & Teaching Seattle, WA
Jim Borgford-Parnell AY 2012/13
Qualitative analysis of classroom assessment data, literature searches, and preparing workshops and papers.

Undergraduate Research Assistant – Northwestern Institute for Policy Research

Prof. James Rosenbaum

Conducted and transcribed interviews; coded, entered and analyzed data in Microsoft Access for education policy research projects.

Evanston, IL

AY 2005/06

HONORS & AWARDS

- + UW College of Engineering Student Teaching Award nominee 2018/19
- + UW Excellence in Teaching Award nominee 2018/19
- + UW Simpson Center Digital Humanities Fellowship 2018/19
- + Honorable Mention – 2018 CHI Conference (top 4% of submissions) 2018
- + Computing Reviews' 21st Annual Best of Computing Notable Books and Articles 2016
- + Best Paper – 2016 ACM CSCW Conference (top 1% of submissions) 2016
- + University of Washington dub design Shobe Prize finalist 2013

SERVICE & LEADERSHIP

Reviewer

Human-Computer Interaction (journal), ACM Computer Human Interaction (CHI), Designing Interactive Systems (DIS), Creativity & Cognition (C&C) conferences, Design Issues, Journal of Computer Supported Collaborative Work (JCSCW), Journal of Medical Internet Research (JMIR), CoDesign Journal

2015 – present

PhD student recruitment & mentoring

Human Centered Design & Engineering

2015 – present

Undergraduate admissions committee member

Human Centered Design & Engineering

2016

Bargaining committee member

UAW 4121 - graduate student employees at the University of Washington

AY 2014/15

PROFESSIONAL MEMBERSHIPS

- + Association for Computing Machinery (ACM)
- + Society for the Social Studies of Science (4S)
- + Puget Sound SIGCHI

SKILLS

- + Digital fabrication, woodworking, sewing, and various handwork skills for design and prototyping
- + Prototyping with Axure, OnShape, Adobe CS, and various wire framing software
- + Basic programming for Android (Java) and data management (SQL)
- + Statistical analysis with IBM SPSS, Excel, and MS Access