CS 598 ACK: Experimental Methods in HCI and Interactive Technologies

11am-12:15pm, 1131 Siebel Center for Computer Science
Course Schedule: (Topics, Readings, Homework and Exams)

Key:

1. “E-HCI” (Text) is Experimental Human-Computer Interaction by H.K. Purchase, NY: Cambridge University Press (2012). Available as an e-book from the UI library. Note: When readings from this text are specified by a range of numbered sections (e.g., “E-HCI 5.3-5.3.3”), the numbered sections should be read as inclusive - so in this case, the reading assignment begins with reading section 5.3, and ends with reading section 5.3.3, as well as each of the sections in between.

2. “WoK” (Other Reading) is Ways of Knowing in HCI (J.S. Olson and W.A. Kellogg, Eds.), NY: Springer (2014). Also available as an e-book from the UI library. Assigned readings are indicated by chapter authors as the chapters are not numbered.

3. “BayesianHCI.pdf” (Other Reading) is “Researcher-centered design of statistics: Why Bayesian statistics better fit the culture of HCI” by Kay, Nelson, and Hekler, ACM CHI’16, May 07-12, 2016, San Jose, CA. Available as a downloadable PDF from this course website.

4. “P1” – “P9” are classroom discussions based on assigned “Other Readings.” These will be led by small groups of 2 or 3 students making class presentations based on these readings and related research cited in these readings. Groups are strongly encouraged to schedule a meeting with the instructor to plan these presentations and class discussions. Each student will be involved in only one such presentation during the course.

5. “H1” – “H6” are homework assignments based on statistics, due 1 week after assigned.

SCHEDULE

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<td>W-18</td>
<td>Course Intro</td>
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<td>F-20</td>
<td>Topical Intro</td>
<td>E-HCI Chap 1</td>
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<td>WoK: Hudson &amp; Mankoff</td>
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Experimental Procedure

Ethics in HCI Research  E-HCI Chap 3  WoK: Bruckman (P1)

Data Collect/Qual Analysis  Ethnography  E-HCI Chap 4  WoK: Dourish (P2)

Statistics 1 (H1 Assigned)  E-HCI 5.5.2.1  WoK: Terveeen et al. (P3)

Using Online Communities  E-HCI

March

Statistics 2 (H2 Assigned)  E-HCI 5.2.2-5.2.3  WoK: Egelman et al. (P4)

Crowdsourcing Methods

Statistics 3 (H3 Assigned)  E-HCI 5.3-5.3.3  WoK: Hansen & Smith (P5)

Exam 1: Covers Material Through Friday, March 3rd

Statistics 4 (H4 Assigned)  E-HCI 5.4-5.5.1  WoK: Voida et al. (P6)

Social Network Analysis

Spring Break

Statistics 5 (H5 Assigned)  E-HCI 5.5.2-5.5.2.1  WoK: Müller et al. (P7)

Using Sensor Data Streams

April

Statistics 6 (H6 Assigned)  E-HCI 5.6-5.8  Navalpakkam & Churchill (P8)

Survey Research

Research Reporting  E-HCI Ch 6

Eye Tracking/Psychometrics

Bayesian Perspectives  Note -> BayesianHCI.pdf

Retrospective Methods  Russell and Chi (P9)

Instructor on Travel (TBD)  TBD

Instructor on Travel (TBD)  TBD

May

Exam 2: Covers Material From Weds, March 8 – Friday April 28. There is no Cumulative Final Exam during the Final Exam Period.