**6650: Computing & The Anthropocene**

**January 07      Introduction to the Class**

**January 09      How to Conduct Background Research**

Resource: A Quick Guide to Doing Background Research for Design

Available on Canvas under Files/Guides

**Before class:**

Read: *Lexicon for the Anthropocene Yet Unseen*, Howe & Pandian

[https://culanth.org/fieldsights/series/lexicon-for-an-anthropocene-yet-unseen (Links to an external site.)](https://culanth.org/fieldsights/series/lexicon-for-an-anthropocene-yet-unseen)
Skim the titles, choose any 2 entries and read them (follow the links within)

Watch: *Below the Iceberg: Conscious design for the anthropocene*, Andersen & Ng

[https://interaction19.ixda.org/program/talk-below-the-iceberg/ (Links to an external site.)](https://interaction19.ixda.org/program/talk-below-the-iceberg/)

**January 14      Research Report 1: What is the Anthropocene?**See the assignment on Canvas for details

**January 16      Compiling and Presenting Research**

**Before class:**

Watch: *Unlocking the Everyday: Beyond the illusion of scientism*(ReD Associates)[https://www.redassociates.com/two-more-videos (Links to an external site.)](https://www.redassociates.com/two-more-videos)

Watch: *Financial Services*(ReD Associates)

[https://www.redassociates.com/financial-services-1 (Links to an external site.)](https://www.redassociates.com/financial-services-1)

Skim: “Cognitive Computing: The Next State in Human-Machine Coevloution” (Cognizant)

[https://www.cognizant.com/whitepapers/cognitive-computing-the-next-stage-in-human-machine-coevolution-codex2582.pdf (Links to an external site.)](https://www.cognizant.com/whitepapers/cognitive-computing-the-next-stage-in-human-machine-coevolution-codex2582.pdf)

Skim: “When Everything is Media” (Institute for the Future)

[http://www.iftf.org/fileadmin/user\_upload/downloads/th/2016\_IFTF\_TH\_WhenEverythingIsMedia\_map\_SR1883.pdf (Links to an external site.)](http://www.iftf.org/fileadmin/user_upload/downloads/th/2016_IFTF_TH_WhenEverythingIsMedia_map_SR1883.pdf)

Skim: “Anatomy of an AI System (Kate Crawford & Vladan Joler)
[https://anatomyof.ai (Links to an external site.)](https://anatomyof.ai/)

[(Links to an external site.)](https://anatomyof.ai/)Read: Nardi, Bonnie, Bill Tomlinson, Donald J. Patterson, Jay Chen,

Daniel Pargman, Barath Raghavan, and Birgit Penzenstadler. “Computing within Limits.” *Communications of the ACM* 61, no. 10 (2018): 86-93.
[https://doi.org/10.1145/3183582 (Links to an external site.)](https://doi.org/10.1145/3183582)

Read: Nardi, Bonnie. “Design in the Age of Climate Change.” *She Ji: The Journal of Design, Economics, and Innovation* 5, no. 1 (2019): 5-14.
[https://www.sciencedirect.com/science/article/pii/S2405872618300418 (Links to an external site.)](https://www.sciencedirect.com/science/article/pii/S2405872618300418)

**January 21      Research Report 2: How Is Computing Entangled With the Anthropocene?**

See the assignment on Canvas for details

**January 23      Open Studio**

Watch: *Scale,*Jamer Hunt

https://www.youtube.com/watch?time\_continue=1062&v=ZkEnCNJluvg&feature=emb\_logo

**January 28      Research Report 3: Strategies of Response**

See the assignment on Canvas for details

**January 30      NO CLASS**

**February 04    Getting Started: Design Notebooks and Diagrams**

Briefs Due!

[Read: Jun, Soojin, Miso Kim, and Joonhwan Lee. "The system diagrams: Shifting perspectives." *Design Issues* 27, no. 2 (2011): 72-89.  (Links to an external site.)](https://www.jstor.org/stable/pdf/41261934.pdf)

(the System Diagrams paper is also in the Files folder)

Read: William Gaver. 2011. Making spaces: how design workbooks work. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems* (*CHI ’11*). Association for Computing Machinery, New York, NY, USA, 1551–1560. DOI:https://doi.org/10.1145/1978942.1979169

(the Design Workbooks paper is also in the Files folder)

**February 06    Visual and Digital Research**

Before class review:

[http://energyanddigitalliving.com (Links to an external site.)](http://energyanddigitalliving.com)

Read: Pink. Sarah. (2007). *Doing Visual Ethnography.*Chapter 2: Planning and Practising ‘Visual Methods’: Appropriate Uses and Ethical Issues.  (available in Files folder)

Read: Marres, Noortje. (2012). The Experiment in Living. In: Celia Lury and Nina Wakeford, eds. Inventive Methods: The Happening of the Social. London and New York: Routledge, pp. 76-95. ISBN 978-0-415- 57481-5 [Book Section] : Goldsmiths Research Online.

**Optional**

Pink. Sarah (2008) "Mobilizing Visual Ethnography". Forum Social Research. Volume 9, No. 3, Art. 36 September 2008. (available in Files folder)

**February 11    In-Studio Concept Reviews**

5 Concept Collages

1 Diagram

**February 13    Futures  & Speculation**

Dator, Jim. (2019). What Futures Studies Is, and Is Not. 10.1007/978-3-030-17387-6\_1. [http://www.futures.hawaii.edu/publications/futures-studies/WhatFSis1995.pdf (Links to an external site.)](http://www.futures.hawaii.edu/publications/futures-studies/WhatFSis1995.pdf)

Inayatullah, S. (2008). Six pillars: futures thinking for transforming. *foresight*, *10*(1), 4-21.
[https://pdfs.semanticscholar.org/196f/36b4b630776f971bf94c94cca025f1643b7a.pdf (Links to an external site.)](https://pdfs.semanticscholar.org/196f/36b4b630776f971bf94c94cca025f1643b7a.pdf)

Dunne, Tony and Fiona Raby. (2014) *Speculative Everything.*(MIT Press). Chapter 3 and  Chapter 8.

Prado, Luiza and Pedro Oliveria. "Cheat sheet for a Non- (or Less-) Colonialist Speculative Design." [https://medium.com/a-parede/cheat-sheet-for-a-non-or-less-colonialist-speculative-design-9a6b4ae3c465 (Links to an external site.)](https://medium.com/a-parede/cheat-sheet-for-a-non-or-less-colonialist-speculative-design-9a6b4ae3c465)

**Optional**

Dator, J. (2019). Alternative futures at the Manoa School. In *Jim Dator: A Noticer in Time* (pp. 37-54). Springer, Cham.

[https://jfsdigital.org/wp-content/uploads/2014/01/142-A01.pdf (Links to an external site.)](https://jfsdigital.org/wp-content/uploads/2014/01/142-A01.pdf)

**February 18   In-Studio Concept Reviews**

10 Concept Collages (in addition to the 5 presented on February 11th)

3 Diagrams

**February 20: NO CLASS**

**February 25    Concept Critiques 1**

See the assignment on Canvas for details

**February 27 Concept Critiques 2**

See the assignment on Canvas for details

**March 03      Survey of Prototyping Techniques**

**March 05        Discussion: Prototyping the Social**

Hunt, Jamer. (2011). "Prototyping the Social." In *Design Anthropology: Object culture in the 21st century.*Edited by Allison Clarke. Springer.

Lindström, Kristina and Åsa Ståhl. (2017). "Plastic Imaginaries."

http://www.continentcontinent.cc/index.php/continent/article/view/282

**March 10        Low-Fidelity Prototype Critiques**

See the assignment on Canvas for details

**March 12        Bonnie Nardi Guest Critic**

**March 17        Spring Break – No Class**

**March 19        Spring Break – No Class**

**March 31       Prototype Critiques**

**April 02         Discussion: "Design for Existential Crisis in the Anthropocene"**

Read: "Design for Existential Crisis in the Anthropocene", Light, Powell, & Shklovski

[https://rebellion.earth (Links to an external site.)](https://rebellion.earth)

**April 07        Prototype Critiques**

**April 09         Discussion: Art in the Anthropocene**

Read: "Symbiogenesis, Sympoiesis, and Art Science Activisms for Staying with the Trouble", Haraway

**April 14           High-Fidelity Critiques**

**April 16           Discussion: New Models of Design**

Read: "Testimony of A Spore", Tsing

"Breaking The Cycle", de O. Martins & de Oliveira

**April 21         High-Fidelity Critiques**