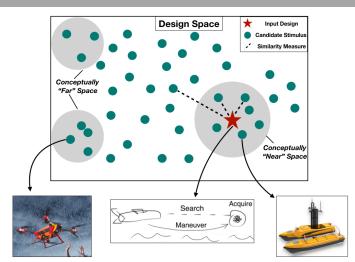
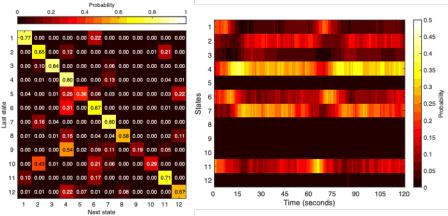
Engineering Design Cognition and Computation

Professor Kosa Goucher-Lambert

• Design Methodology • Product Design • Human Computer Interaction • Neuroimaging • Computational Modelling • Creativity and Ideation

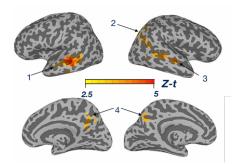


Human-Al Symbiotic Design: We develop methods and tools that enable humans and Al design teams to search for design examples using mixed inputs like text, sketch, and voice.





Design Methodology: We help maintain the world's largest open-sourced collection of design methods and case studies (theDesignExchange.org)— and use it to teach and study design at scale.



Design Neurocognition: We conduct Neuroimaging (fMRI) studies of humans designing, and construct computational models to gain fundamental brain-based insights related to design.



We are interested in understanding how humans and computers design. We use

that information to develop novel methods

and tools to improve the design process.

Sustainability and User
Preference: Life cycle assessment
methods and constructing
mathematical models of user
preference. We model what
designs people prefer and
automatically generate new ones to
meet their desires.

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Berkeley Mechanical Engineering

