

Cognitive Science Week, October 7-11, 2013

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	Day 1: Monday Oct. 7, 2013	Day 2: Tuesday Oct. 8, 2013	Day 3: Thursday Oct. 9, 2013	Day 4: Friday Oct. 10, 2013
Theme	Cog. Sci. Intro: History, Ideas, Models	Judgment & Decision Making	Optimal Experimental Design: Philosophy to Behavior & Neuroscience	Learning & Reasoning
#1	Introduction to cognitive science: history & big questions (JN)	Bayesian reasoning tutorial (JN)	Philosophy & statistical foundations of experiment selection (JN)	Introduction to reinforcement & associative learning (BM)
#2	Modeling in cognitive science (JN)	Judgment and decision making: overview & controversies (JN)	Human information search: from psychology to eye movements to the brain (JN)	Causal reasoning (BM)
#3	Mate choice: experiment, with Dr. Hansjörg Neth (BM)	Recent developments in judgement & decision making (BM)	Presentation formats, Bayesian reasoning & information search (BM)	Discussion of key issues in cognitive science; feedback.
#4	Mate choice: modeling, with Dr. Hansjörg Neth (BM)	Applied risk communication (BM)	Sequential information search: Heuristics & optimality (JN)	Test
Readings:	Chater & Oaksford (1999). 10 years of the rational analysis of cognition. <i>TICS</i> . Chase, Hertwig & Gigerenzer (1998). Visions of rationality. <i>TICS</i> . Kemp & Tenenbaum (1998). The discovery of structural form. <i>PNAS</i> .	Tversky & Kahneman (1974). Judgment under uncertainty: Heuristics and biases. <i>Science</i> . Meder, Le Lec & Osman (2013). Decision making in uncertain times: what can cognitive and decision sciences say about or learn from economic crises? <i>TICS</i> . Gigerenzer, Gaissmaier, Kurz- Milcke, Schwartz & Woloshin (2008). Helping doctors & patients make sense of health statistics. <i>Psy Sci Pub Int</i> .	Cavagnaro, Pitt & Myung, (2011). Model discrimination through adaptive experimentation. <i>Psych Bull & Rev</i> . Nelson, McKenzie, Cottrell & Sejnowski (2010). Experience matters: information acquisition optimizes probability gain. <i>Psych Sci</i> .	Blaisdell, Sawa, Leising & Waldmann (2006). Causal reasoning in rats. <i>Science</i> . Waldmann, Hagmayer & Blaisdell (2006). Beyond the information given: Causal models in learning & reasoning. <i>Curr Dir Psy Sci</i> .