

**ROXANNE BENOIT RAINE, PhD**  
**Cognitive Scientist**  
Instructional Research, Design, and Implementation

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**SUMMARY**

Creative problem solver and enthusiastic team leader with 15+ years of experience in online communications and technology experimentation, data analysis, and design. Broad repertoire of experience, including experimental design, parametric and nonparametric statistics, qualitative and quantitative measures, survey administration, SQL, Python, animation software (e.g., Captivate and Articulate), statistical software (SPSS and SAS), linguistic analysis, Skillsoft dashboard management, technical writing, Learning Management Systems (BlackBoard, eCourseware and others), and instructional design as evidenced by peer-reviewed academic publications, contracting, adjunct teaching experience, and positive reviews from system users and supervisors. Ability to communicate goals and milestone achievements to a broad audience, including scientists, students, judges, and executives. Experience managing teams with multifaceted goals on multiple concurrent projects as evidenced by cross-functional team leadership and lab management in diverse organizations.

**WORK EXPERIENCE**

*University of Hawaii at Manoa, Information and Computer Sciences Department*  
*Junior Faculty Researcher, January 2015 - August 2016*

This was a limited term fellowship funded by the National Science Foundation. When the fellowship ended, instead of finding a new position, I spent my days caring for my new son, who is now almost 2 years old. I continued my work with adjunct positions at various universities during that time. The position involved researching social media use and political decision-making.

- Researching computer-human interaction in social media as related to politics and civic engagement
- Using quantitative and qualitative methods
- Presenting research through peer-reviewed conferences and publications, some of which garnered attention in national and local media
- Analyzing text to detect differences in Facebook posts (data sets too large for Excel)
- Collaborating with researchers and labs
- Using SQL databases in Google Big Query and MySQL, SPSS, SAS, Excel, statistical measures (e.g., chi squared, binomial nonparametrics, ANOVAs, MANOVAS, z statistics, t-tests, Pearson's and Spearman's correlations, and lexical analysis)
- Supervising doctoral students and computer science students while head of lab was on sabbatical

*Hawaii State Judiciary*  
*Research Statistician IV, May 2014 - January 2015*

Using statistical analyses to calculate large quantities of data for reporting to state leaders, including the Chief Justice. Collecting, organizing, and reporting court performance statistics to media, judiciary administrators, and public. Using nationally defined performance measures as a benchmark regarding assessments of judges and districts for Hawai'i State Judiciary Selection Committee.

- Creating CourTools reports of state judiciary
- Working closely with fellow researchers, court clerks, Hawaii's Chief Justice, judges, and others
- Finding solutions to problems, such as outstanding cases erroneously marked active, cases that were recorded as having been marked reactivated when they had not been recorded as inactivated
- Presenting solutions to state leadership
- Automating datasheet entry for judiciary annual reports

*Kamehameha Schools Distance Learning, Kāpalama Campus*  
*Instructional Support Specialist, March 2013 - December 2013*

Maintaining, improving, designing, marketing, and collecting/analyzing data for the Kamehameha Schools Distance Learning Department.

- Continually improving the distance learning program by determining and creating opportunities for course offering and system efficiencies through data-driven research, organizational best practices, and parallel program assessments
- Hosting events for DOE and Kamehameha Schools teachers, 4-6 Saturdays/year
- Automating technical tasks by creating algorithm-driven datasheets
- Designing program evaluation studies
- Ensuring data file and product quality through regular quality and consistency checks
- Creating and improving high school, community, and DOE / instructor courses
- Evaluating user performance, completion rates, and satisfaction with the courses
- Participating in cross-functional marketing teams to increase course enrollment and raise public awareness about the programs
- Providing technical support to teachers, staff, and students
- Managing BlackBoard improvements
- Managing annual reporting via dashboard organization, evaluation, and analysis
- Providing project management as project lead; drafting project documents
- Identifying and requesting internal and external resources
- Conducting systems updates and processing orders
- Studying Hawaiian language and culture through courses and personal development
- Working with ethnically diverse student and staff configurations

*Kamehameha Schools Distance Learning, Kāpalama Campus*  
*Instructional Designer, September 2012 - March 2013*

Creating interactive online tutorials for Kamehameha Schools to distribute system-wide to students and staff for Human Resources and other departments.

- Leading projects as project manager
- Performing vendor selection assessments
- Identifying and requesting needed internal and external resources
- Managing projects and timelines of SME's and graphic/web designers
- Working with various departments around Kamehameha Schools, including leadership
- Designing online interactive tutorials within tight deadlines
- Accessing classified information before it was released system-wide
- Creating background reports for leadership decisions about which platforms to use for production
- Working with change management in a department facing many unwanted changes, that was not always welcome to changes, even if they meant improvement
- Managing fellow instructional designers

*University of Memphis*  
*Postdoctoral Fellow, September 2009 - March 2011*

Conducting experiments, creating and testing an interactive online essay-writing tutorial system for high school students for an Institute of Education Sciences grant.

- Managing long-term and short-term research projects and initiatives
- Managing experimental psychology lab undergraduate and graduate students
- Using qualitative and quantitative research methods
- Designing, conducting, analyzing, and publishing experiments
- Developing, coordinating, and managing large budgets and expansive budget processes
- Conceiving and directing formative and summative program evaluation studies
- Directing teams on projects with a wide range of roles and responsibilities
- Collecting and analyzing data
- Identifying and requesting needed internal and external resources
- Organizing travel to out-of-state research facilities; collaborating with teams in other research labs
- Developing innovations in educational research and design, demonstrated by publications
- Contacting and hosting numerous visitors to the research facility
- Publishing at least one academic article per month
- Hosting marketing events to inform the public about our intelligent tutoring system
- Writing, designing, and building online tutorials and games
- Writing grants, producing annual report for the multi-million-dollar Institute of Educational Sciences grant
- Grading essays and assessing inter-rater reliability (kappa) scores
- Conducting surveys and usability questionnaires (Mechanical Turk, Qualtrics, in-house survey software, Google surveys, interviews, pen-and-paper questionnaires, and Survey Monkey)
- Working with ethnically diverse student and staff configurations
- Ensuring projects were feasible within lab's constraints and goals
- Managing own work, work of junior staff, and that of external collaborators on projects

University of Twente, The Netherlands  
Visiting Scholar, January - June 2009

Conducting human Interaction research, literature reviews and data organization

- Presenting and volunteering at local and international conferences
- Conducting experiments

## **AWARDS**

Who's Who international, 2011-2016  
Templeton Foundation Ethics Grant finalist 2015  
COST 2102 winter school member at Trinity College in Dublin, Ireland 2009  
Dissertation Research Award, American Psychological Association 2007  
American Psychological Association Graduate Student Travel Award 2007  
Chancellor's List 2003-2009  
Honors College 1998-2002  
T.O.P.S. Scholar 1998-2002  
Theatre Scholarship, Oglethorpe University 1998 (declined)  
Oxford Scholar 1998 (declined)  
Jay Falgout Art Award (1998)

## **PUBLICATIONS**

Maruyama, M., Robertson, S.P., Douglas, S., **Raine, R.B.**, & Semaan, B. (2017). Social Watching a Civic Broadcast: Understanding the Effects of Positive Feedback and Other Users' Opinions. In *Proceedings of the 2017 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW '17)*. ACM, New York, NY, USA, 794-807.

**Raine, R.B.** & Robertson, S.P. (2016, July). Politics and affect on Facebook. International Conference on Social Media and Society, London, UK.

Sara Douglas, S., **Raine, R.B.**, Maruyama, M., Semaan, B., & Robertson, SP. (2015). Community matters: How young adults use Facebook to evaluate political candidates. *Information Polity* 20 (2, 3), 135-150.

**Raine, R.B.** (2014, May). Inter-cultural online collaboration. Paper presented at Technology, Colleges, and Community, Honolulu, Hawai'i.

Di Sano, S., La Caprara, K., Rosa, A., **Raine, R.B.**, & McNamara, D. (2012, April). Learning to write persuasive essays: A preliminary study on the effectiveness of an intelligent tutorial system with high school students. Paper presented at Writing Day in Honor of Piero Boscolo, Dipartimento di Psicologia dello Sviluppo e della Socializzazione, Università degli Studi di Padova.

McNamara, D. S., **Raine, R.B.**, Roscoe, R., Crossley, S., Jackson, G. T., Dai, J., Cai, Z., Renner, A., Brandon, R., Weston, J., Dempsey, K., Lam, D., Sullivan, S., Kim, L., Rus, V., Floyd, R., McCarthy, P.M., & Graesser, A.C. (2012). The Writing-Pal: Natural language algorithms to support intelligent tutoring on writing strategies. In P.M. McCarthy & C. Boonthum (Eds.), *Applied natural language processing and content analysis: Identification, investigation, and resolution*. Hershey, PA: IGI Global, pp. 298-311.

**Raine, R.B.**, Mintz, L., Crossley, S., Dai, J., & McNamara, D.S. (2012). Text box size, skill, and iterative practice in a writing task. Florida Artificial Intelligence Research Society conference, Palm Beach, Florida.

**Raine, R.B.** (2011, May). Auditory stimuli more likely to support endurance of negative preconceptions. Association for Psychological Science (APS) 23rd Annual Convention, Washington, D.C.

Berkeley, I.S.N., & **Raine, R.B.** (2011). An old-fashioned connectionist approach to a Cajun chord change problem. *Connection Science*, 23, 209-218.

Dai, J., **Raine, R.B.**, Roscoe, R., Cai, Z., & McNamara, D.S. (2011). The Writing-Pal tutoring system: Development and design. *Journal of Engineering and Computer Innovations*, 2, 1, 1-11.

**Raine, R.B.**, & Berkeley, I.S.N. (2010, November). Generating a Geno? -- An old-fashioned neural network approach to a Cajun and Creole chord change conundrum. Paper presented at Auditory Perception, Cognition and Action Meeting. St. Louis, Missouri.

McNamara, D.S., Roscoe, R., Jackson, G.T., Dai, J., **Raine, R.B.**, Brandon, R., Weston, J., Kim, L., Graesser, A., & Crossley, S.A. (2010, July). The Writing-Pal: An intelligent tutoring system to provide writing strategy training. JURE 2010 conference. Frankfurt, Germany.

**Raine, R.B.** (2010). Media differences in communication. In A. Esposito, N. Campbell, C. Vogel, N. Hussain & A. Nijholt, (Eds.). *Development of multimodal interfaces: Active listening and synchrony*. Berlin: Springer. (102-112) ISBN: 978-3-642-12396-2.

McNamara, D.S., Graesser, A.C., Jackson, G.T., Kim, L., & **Raine, R.B.** (2010, June). The Writing-Pal: A writing strategy intelligent tutoring system. Poster presented at the Tenth International Conference on Intelligent Tutoring Systems. Pittsburgh, Pennsylvania.

**Raine, R.B.**, Akker, R., Cai, Z., Graesser, A.C., & McNamara, D.S. (2009). Synthesis and analysis in artificial intelligence: The role of theory in agent implementation. *Proceedings of the 8th International Symposium on Dependable, Autonomic and Secure Computing (DASC-09)*. IEEE Computer Society: Los Alamitos, CA, pp. 266-269. ISBN#: 978-0-7695-3929-4.

**Raine, R.B.** (2009) Making a clever intelligent agent: The theory behind the implementation. *Proceedings of the 2009 IEEE International Conference on Intelligent Computing and Intelligent Systems, (ICIS)* in Shanghai, China. ISBN#: 978-1-4244-4754-1.

**Raine, R.B.** (2009, July) Overhearing computer-mediated monologues and dialogues. Poster presented at Cognitive Science Society Meeting in Amsterdam, The Netherlands.

**Raine, R.B.** (2009, July) How are overhearers to monologues and dialogues in computer-mediated communication affected by task difficulty and cultural differences? Poster presented at Society for Text and Discourse Conference in Rotterdam, The Netherlands.

**Raine, R.B.**, & Čech, C.G. (2009) Overhearers in CMC: Deficient or advantageous? Paper presented at COST conference and winter school in Dublin, Ireland.

**Raine, R.B.**, & Burke, M. (2008) Intercultural address differences and egocentric listeners: An anchoring and adjustment heuristic moderates computer-mediated dialogues and an availability heuristic moderates their overhearers. Poster presented at Cognitio 2008: Minds and Societies, Montreal, Canada.

**Raine, R.B.**, (2008). Where are you? Who are you? What are you? ... and when do I care? Physical, cultural, and mental place in communication. Paper presented at The Louisiana Conference on Language and Literature, Lafayette, LA.

**Benoit, R.B.**, & Elias, J.S. (2007). Cultural preconceptions and description modifications: Tailoring utterances to the listener. Poster presented at APA San Francisco, CA.

**Benoit, R.B.** (2007). Entrainment: Personal experience or audience-design? In D. S. McNamara & J. G. Trafton (Eds.), *Proceedings of the 29th Annual Cognitive Science Society*. Austin, TX: Cognitive Science Society, (p. 1710).

**Benoit, R.B.** (2007). Spontaneous decision-making in conversation: variations across media. In B. Hardy-Vallée (Ed.), *Cognitive decision-making: Empirical and foundational issues*. Cambridge: Cambridge Scholars Press Ltd, (pp. 66-78).

**Benoit, R.B.** (2007). Monologue delivery differences: Speakers' considerations of their addressees' culture and the influence of their previous experiences. Poster presented at the 10th International Pragmatics Conference in Gothenburg, Sweden. *Proceedings*, (p. 449).

**Benoit, R.B.**, & Berkeley, I.S.N. (2006). Sliding windows, Cajun music, and representation: an Artificial Neural Network investigation. Poster presented at APCAM, Houston, TX.

**Benoit, R.B.**, & Čech, C. G. (2005). Deciding to elaborate / Se décider a donner plus de details. Paper presented at Cognito Conference, University of Quebec at Montreal, Canada.

Čech, C.G., & **Benoit, R.B.** (2003). Are two heads better than one? (Listening in on overhearer collaboration). Paper presented at the 44th Annual Meeting of the Psychonomic Society, Vancouver, Canada.

#### **INTERNAL OR INVITED PRESENTATIONS**

**Raine, R.B.**, Scheopner, C., & McKinney, J. (2015, March) Motivating virtuous selves: The impact of gender and culture. Paper presented at Self, Motivation & Virtue Project forum as finalist for Templeton Foundation Grant.

**Raine, R.B.** & Schoepner, C. (2014, October). Social media. Paper presented at Honolulu Sail and Power Squadron District Meeting, Honolulu, Hawai'i.

**Raine, R.B.** (2009, April). Overhearers in computer-mediated communication: an overview of original research. Presented to Human-Media Interaction group at the University of Twente, the Netherlands.

**Raine, R.B.** (2009, May). Presuppositions and performance in computer-mediated communications. Talk presented to Psychology department at Università G. d'Annunzio, Chieti, Italy.

**Raine, R.B.** (2009, October). AI and Psychology. Talk presented to Berkeley's "Computational Issues in Cognitive Science". University of Louisiana at Lafayette.

**Benoit, R.B.** (2007). Perspective taking in conversation. Presented to Michele Feist's language lab group, University of Louisiana at Lafayette.

**Benoit, R.B.** (2007). Audience-designed address, listener models and entrainment in conversation. Presented at ICS Colloquium, University of Louisiana at Lafayette.

**Benoit, R.B.** & Čech, C. G. (2004). Degrees of discourse privacy: Common ground in spoken and computer-mediated discourse. Presented at Institute of Cognitive Science Colloquium, University of Louisiana at Lafayette.

## SUPPORT

External	Source	Amount	Period
Roxanne Raine	IDIAP: Augmented Multimodal Interaction: Distance Access	€10,000 (roughly \$15,000)	2009
Roxanne Raine	American Psychological Association Outstanding Dissertation Research Award	\$1,000	2007

Internal	Source	Amount	Period
Roxanne Raine, Cindy Schoepner, & Amber Makaiau	University of Hawaii SEED grants	\$5,000	2015

## REVIEWING EXPERIENCE

EuroCogSci 2015  
Educational Research and Reviews 2010, 2014, 2015  
Florida Artificial Intelligence Research Society 2011  
Journal of Engineering and Computer Innovation 2011  
Intelligent Tutoring Systems (ITS) conference 2010  
MidSouth Psychology Conference (judge panel) 2010  
Cognitive Science Society Meeting 2008, 2009, 2010  
COST 2102 (Member of International Scientific Program Committee) 2009  
Journal of Educational Psychology 2009  
Discourse Processes 2007

## Education

### graduate (2002-2009)

Ph.D., Cognitive Science, minor in Psychology  
University of Louisiana at Lafayette

### undergraduate (1998-2002)

B.S., Psychology  
Louisiana State University Honors College

## ADJUNCT INSTRUCTING/ADVISING EXPERIENCE

Institution	Year start	Year end	Course	Grad / Under -grad	Online / In person	Location
University of Memphis	2011		Cognitive Psychology	UG	OL	Tennessee
			Mind, Brain, and Intelligence	UG	OL	Tennessee
			Master / Doctoral Theses	G	IP	Tennessee
Argosy University	2012	2017	Abnormal Psychology	UG	OL/IP	Honolulu
			Advanced General Psychology	UG	OL	American Samoa
			Clinical Consultation	G	OL	worldwide
			Cognitive Psychology	UG	OL/IP	worldwide
			Ethical Psychology	UG	OL	worldwide
			Ethics in Practice	G	OL	worldwide
			Existential Counselling	G	IP	Hilo, Hawaii
			Group Therapy	G	OL	worldwide
			History of Psychology	UG	OL/IP	worldwide
			Introductory Psychology	UG	OL	worldwide
			Motivation in Psychology	G	IP	Honolulu
			Personality Theories	UG	OL/IP	Honolulu
			Physiological Psychology	UG	OL	worldwide
			Quantitative Statistics	G	IP	Honolulu
			Research and Statistics	UG	OL	worldwide
Research Methods	UG	OL/IP	worldwide			
Sensation and Perception	UG	OL	worldwide			
Walden University	2014	2016	Dissertation Methodology	G	OL	national
			Research Methods	G	OL	national
Northcentral University	2013	2014	Abnormal Psychology	UG	OL	national
			Basic Research Methods	UG	OL	national
			Biopsychology	G	OL	national
			Psychology of Perception	G	OL	national
			Subject Matter Expert	G	OL	national
Hawai'i Pacific University	2011	2013	Biopsychology	UG	OL	worldwide
			Cognitive Psychology	UG	OL/IP	Honolulu
			Introductory Psychology	UG	OL	worldwide
			Learning and Memory	UG	OL	worldwide