

BETSY ROLLAND, PhD MLIS MPH

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EDUCATION

- 2014-2015 **Johns Hopkins University Bloomberg School of Public Health**, Baltimore, MD
Master of Public Health conferred May 2015.
Capstone: *Toward a Data Sharing and Reuse System in Cancer Epidemiology: Challenges and Opportunities*
- 2010-2013 **University of Washington, College of Engineering**, Seattle, WA
Department of Human Centered Design & Engineering
Doctor of Philosophy conferred March 2013.
Dissertation: *"Greater than the Sum of its Parts:" Coordinating Centers as Facilitators of Network-Level Work in Cancer Epidemiology*
Coordinating Center Enabled Networks.
- Committee: *Charlotte P. Lee*, PhD, Human Centered Design & Engineering (chair); *John D. Potter*, MD PhD, Epidemiology; *Matthew J. Bietz*, PhD, Informatics, University of California-Irvine; *Mark Zachry*, PhD, Human Centered Design & Engineering; *Wanda Pratt*, PhD, Information School (Graduate School Representative).
- 2005-2007 **University of Washington, Information School**, Seattle, WA
Master of Library and Information Science conferred June 2007.
Coursework included information behavior, programming for information systems, organization of resources, project management, biomedical and health informatics, usability testing and instructional and training strategies.
- 1997-2000 **San Francisco State University**, San Francisco, CA
Coursework in Computer Science.
- 1989-1993 **Northwestern University**, Evanston, IL
Bachelor of Arts, Slavic Languages and Literature conferred June 1993.

FUNDED RESEARCH

- *The Role of Coordinating Centers in Collaborative Cancer-Epidemiology Studies*
PI: Rolland (lead), Lee (University of Washington)
National Cancer Institute R03-CA150036; \$185,866
- *Experimenting Outside the Information Center: Non-Traditional Roles for Information Professionals in Biomedical Research*
PI: Rolland, Glenn (Seattle Biomedical Research Institute)
Special Libraries Association 2008 SLA Research Grant; \$20,000

EMPLOYMENT

- 6/14-present **National Cancer Institute**, Rockville, MD
Cancer Prevention Fellow
Developed independent research program focused on designing and building evidence-based infrastructures to support team science in cancer epidemiology and health services research. Areas of interest: coordinating centers; the initiative writing and peer review processes; consortia governance policies; evaluation of team science processes and infrastructure; data sharing, reuse and harmonization.
- 5/07-6/14 **Fred Hutchinson Cancer Research Center**, Seattle, WA
Investigator, Transdisciplinary Research on Energetics in Cancer (TREC) Development Project (3/13-6/14)
Productivity in Transdisciplinary Research: Investigating New Metrics and Contributing Characteristics
PI: Mark Thornquist, PhD

Investigated the area of productivity and coordination in scientific research.
- Principal Investigator (9/11-1/14)
The Role of Coordinating Centers in Collaborative Cancer-Epidemiology Studies; NCI R03-CA150036; \$185,866
PI: Rolland (lead); Charlotte P. Lee, PhD

As collaborative research increases in size and scope, researchers are seeking tools that help lessen the administrative burden on investigators. Coordinating centers are one such tool. Despite their prominent role in multi-site studies, especially in cancer epidemiology, little research has been done on what coordinating centers do and how they do it. This qualitative research study was conducted through field observations and interviews and had the following specific aims:

- Identify and describe models of Coordinating Centers (CCs) and corresponding models of collaborative cancer-epidemiology research projects
- Develop metrics that CCs can use to predict and evaluate their performance
- Craft policy suggestions for how CCs can be developed and funded via funding agency RFAs
- Build a downloadable toolkit to help CCs ramp up their operations efficiently and effectively
- Produce a modular course to develop and train CC staff

Senior Project Manager, Asia Cohort Consortium Coordinating Center (2/08-6/14)

PI: John D. Potter, MD PhD

The Asia Cohort Consortium (ACC) is a collaboration of Principal Investigators of prospective cohorts in Asia aimed at conducting epidemiology and prevention research within the framework of multicenter pooling of data and biologic samples. The Coordinating Center supported all operations and logistics of the ACC, as well as the data management and statistical analysis of pooled datasets.

- Designed and developed infrastructure for this new Coordinating Center, drawing upon principles of team science and information science.
- Fostered the development of new pilot projects, including the first comprehensive pooled analysis of BMI and mortality in Asian populations, resulting in the Consortium's first paper, published in the *New England Journal of Medicine*.
- Evaluated incoming project proposals, advising Executive Committee on feasibility, appropriateness of the project to ACC goals, and funding capacity.
- Negotiated data transfer and publication policies with cohort PIs.
- Developed and maintained policies & procedures manual, adapting as needed to changing levels of funding, emerging projects and scientific developments.
- Led the submission of seven grants to the National Institutes of Health; five were successfully funded. Wrote and submitted all agency-required reports.
- Made recommendations to the Executive Committee on strategic direction for the ACC after evaluation of potential new areas of research and funding opportunities.
- Secured human subjects approvals for all studies, including procurement of IRB documentation from participating cohorts from Asia.
- Coordinated tasks and work progress for all projects, planning work assignments for multiple investigators and statisticians.
- Facilitated project- and subject-specific Working Groups through organization of conference calls, management of documents and development of agendas.
- Grew active membership from 20 investigators to more than 50; increased meeting attendance from 25 to more than 80. Identified new cohorts via literature searches.
- Planned and tracked multiple budgets up to \$450,000.
- Organized two meetings each year – one in Asia, one in the US.
- Built a collaborative SharePoint portal to support and enhance the ACC's work. Expanded SharePoint portal usage to ten other groups at FHCRC by demonstrating the value of a collaborative portal, creating new sites and training users.

Information Analyst and Information Services Team Project Manager, Alliance Management Office (5/07-1/08)

The Alliance Management Office coordinated two HIV/AIDS research collaborations composed of dozens of labs and HIV/AIDS organizations around the world.

- Initiated and led the creation of an Information Services Team responsible for all SharePoint portal development and information organization.
- Created a portal development process that put in place specific roles and responsibilities for team members.
- Performed user needs assessments and requirements gathering, UI and functionality development, and usability testing.

- Crafted and executed communications and rollout plans and deployed solutions.
- Trained staff in usability testing and user-centered design.
- Developed and delivered SharePoint training materials to users of a variety of technology comfort levels.
- Researched best practices in scientific research collaboration.

9/05-6/07

University of Washington, Seattle, WA

Graduate Research Assistant to Director of Web Services, College of Arts and Sciences, Dean's Office (9/05-6/07)

- Collaborated in the design of Project ORCA (Online Research Collaboration Areas), a pilot project of the Dean's Office researching ways to support CAS faculty in collaborative research through online tools.

Information Architect (Student Hourly), Department of Medicinal Chemistry, Daggett Lab (10/06-3/07)

- Created user interfaces to access large-scale research data in a medicinal chemistry lab.
- Built internal website to allow researchers dynamic access to data from SQL Server database using ColdFusion and ASP pages.

8/02-8/05

Corel (formerly Jasc Software, Inc.), Eden Prairie, MN

Automation Engineer (6/03-8/05)

Quality Assurance Engineer (8/02-6/03)

6/99-6/02

Macromedia, San Francisco, CA and Minneapolis, MN

Quality Assurance Engineer, White Box Testing Lead (12/01-6/02)

Build & Release/Installation Engineer, LikeMinds (6/99-12/01)

5/98-3/99

Plageman, Lund & Miller LLP, Oakland, CA

Office Manager

4/96-1/98

Kaiser, Inc., Oakland, CA

Administrative Assistant

9/95-3/96

Montgomery Securities, San Francisco, CA

Research Assistant

1/94-2/95

Starlite Investments, Moscow, Russia

Commercial Assistant

9/93-12/93

Moscow School District, Moscow, Russia

English Teacher

PEER-REVIEWED PUBLICATIONS

- Rolland B, Reid S, Stelling D, Warnick G, Thornquist M, Feng Z and Potter JD. (2015). "Toward Rigorous Data Harmonization in Cancer Epidemiology Research: One Approach." *American Journal of Epidemiology*. In press.
- Fowke JH, McLerran DF, Gupta PC, He J, Shu XO, Ramadas K, Tsugane S, Inoue M, Tamakoshi A, Koh WP, Nishino Y, Tsuji I, Ozasa K, Yuan JM, Tanaka H, Ahn YO, Chen CJ, Sugawara Y, Yoo KY, Ahsan H, Pan WH, Pednekar M, Gu D, Xiang YB, Sauvaget C, Sawada N, Wang R, Kakizaki M, Tomata M, Ohishi W, Butler LM, Oze I, Kim DH, You SL, Park SK, Parvez F, Chuang SY, Chen Y, Lee JE, Grant E, Rolland B, Thornquist M, Feng Z, Zheng W, Boffetta P, Sinha R, Kang D and Potter JD. (2015). "Associations of Body Mass Index, Smoking, and Alcohol Consumption With Prostate Cancer Mortality in the Asia Cohort Consortium." *American Journal of Epidemiology*. Published online: August 4, 2015.
- Rolland B, Paine D and Lee CP. (2014). "Work Practices in Coordinating Center Enabled Networks (CCENs)." *Proceedings of the 18th International Conference on Supporting Group Work*. Sanibel Island, Florida, USA, ACM: 194-203.
- Zheng W, McLerran DF, Rolland BA, Fu Z, Boffetta P, He J, Gupta PC, Ramadas K, Tsugane S, Irie F, Tamakoshi A, GaoYT, Koh WP, Shu XO, Ozasa K, Nishino Y, Tsuji I, Tanaka H, Chen CJ, Yuan JM, Ahn YO, Yoo KY, Ahsan H, Pan WH, Qiao YL, Gu D, Pednekar MS, Sauvaget C, Sawada N, Sairenchi T, Yang G, Wang R, Xiang YB, Ohishi W, Kakizaki M, Watanabe T, Oze I, You SL, Sugawara Y, Butler LM, Kim DH, Park SK, Parvez F, Chuang SY, Fan JH, Shen CY, Chen Y, Grant EJ, Lee JE, Sinha R, Matsuo K, Thornquist M, Inoue M, Feng Z, Kang D, Potter JD. (2014). "Burden of Total and Cause-Specific Mortality

Related to Tobacco Smoking among Adults Aged ≥ 45 Years in Asia: A Pooled Analysis of 21 Cohorts". (2014). *PLoS Medicine* 11(4): e1001631.

- Chen Y, Copeland WK, Vedanthan R, Grant E, Lee JE, Gu D, Gupta PC, Ramadas K, Inoue M, Tsugane S, Tamakoshi A, Gao YT, Yuan JM, Shu XO, Ozasa K, Tsuji I, Kakizaki M, Tanaka H, Nishino Y, Chen CJ, Wang R, Yoo KY, Ahn YO, Ahsan H, Pan WH, Chen CS, Pednekar MS, Sauvaget C, Sasazuki S, Yang G, Koh WP, Xiang YB, Ohishi W, Watanabe T, Sugawara Y, Matsuo K, You SL, Park SK, Kim DH, Parvez F, Chuang SY, Ge W, Rolland B, McLerran D, Sinha R, Thornquist M, Kang D, Feng Z, Boffetta P, Zheng W, He J, and Potter JD. (2013). "Association between body-mass index and cardiovascular disease mortality in East Asians and South Asians: a pooled analysis from the Asia Cohort Consortium." *BMJ*, 2013 Oct 1;347:f5446.
- Lee JE; McLerran DF; Rolland B; Chen Y; Grant ET; Vedanthan R; Inoue M; Tsugane S; Gao YT; Tsuji I; Kakizaki M; Ahsan H; Ahn YO; Pan WH; Ozasa K; Yoo KY; Sasazuki S; Yang G; Watanabe T; Sugawara Y; Parvez F; Kim DH; Chuang SY; Ohishi W; Park SK; Feng Z; Thornquist M; Boffetta P; Zheng W; Kang D; Potter JD; Sinha R. (2013). "Meat intake and cause-specific mortality: a pooled analysis of Asian prospective cohort studies." *The American Journal of Clinical Nutrition*. 2013 Oct;98(4):1032-41.
- Rolland B and Lee CP. (2013). "Beyond Trust and Reliability: Reusing Data in Collaborative Cancer Epidemiology Research." *Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW)*. San Antonio, Texas, USA, ACM: 435-444.
- Lin Y; Fu R; Grant, E; Chen Y; Eun Lee J; Gupta PC; Ramadas K; Inoue M; Tsugane S; Gao YT; Tamakoshi A; Shu XO; Ozasa K; Tsuji I; Kakizaki M; Tanaka H; Chen CJ; Yoo KY; Ahn YO; Ahsan H; Pednekar MS; Sauvaget C; Sasazuki S; Yang G; Xiang YB; Ohishi W; Watanabe T; Nishino Y; Matsuo K; You SL; Park SK; Kim DH; Parvez F; Rolland B; McLerran D; Sinha R; Boffetta P; Zheng W; Thornquist M; Feng Z; Kang D; Potter JD. (2012). "Association of body mass index and risk of death from pancreas cancer in Asians: findings from the Asia Cohort Consortium." *European Journal of Cancer Prevention*. 2013 May;22(3):244-50.
- Rolland B. (2013). "Greater than the Sum of its Parts:" Coordinating Centers as Facilitators of Network-Level Work in Cancer Epidemiology Coordinating Center Enabled Networks. Doctoral dissertation. Defended Feb 2013. Published online July 2013.
- Song M, Rolland B, Potter JD, Kang D. (2012). "Asia Cohort Consortium: Challenges for Collaborative Research." *Journal of Epidemiology*. 2012;22(4):287-90.
- Boffetta P, Hazelton WD, Chen Y, Sinha R, Inoue M, Gao YT, Koh WP, Shu XO, Grant EJ, Tsuji I, Nishino I, You SL, Yoo K, Yuan JM, Kim J, Tsugane S, Yang G, Wang R, Xiang YB, Ozasa K, Nagai M, Kakizaki M, Chen CJ, Park SK, Shin A, Ahsan H, Qu CX, Lee JE, Thornquist M, Rolland B, Feng Z, Zheng W, and Potter JD. (2012). "Body mass, tobacco smoking, alcohol drinking and risk of cancer of the small intestine—a pooled analysis of over 500,000 subjects in the Asia Cohort Consortium." *Annals of Oncology*. 2012 Jul;23(7):1894-8.
- Rolland B, Smith BR, Potter JD. (2011). "Coordinating Centers in Cancer-Epidemiology Research: The Asia Cohort Consortium Coordinating Center." *Cancer Epidemiology, Biomarkers and Prevention*. 2011 Oct;20(10):2115-9.
- Boffetta P, McLerran D, Chen Y, Inoue M, Sinha R, He J, Gupta PC, Tsugane S, Irie F, Tamakoshi A, Gao YT, Shu XO, Wang R, Tsuji I, Kuriyama S, Matsuo K, Satoh H, Chen CJ, Yuan JM, Yoo KY, Ahsan H, Pan WH, Gu D, Pednekar MS, Sasazuki S, Sairenchi T, Yang G, Xiang YB, Nagai M, Tanaka H, Nishino Y, You SL, Koh WP, Park SK, Shen CY, Thornquist M, Kang D, Rolland B, Feng Z, Zheng W, Potter JD. (2011). "Body mass index and diabetes in Asia: a cross-sectional pooled analysis of 900,000 individuals in the Asia cohort consortium." *PLoS One*. 6(6):e19930.
- Zheng W, McLerran DF, Rolland B, Zhang X, Inoue M, Matsuo K, He J, Gupta PC, Ramadas K, Tsugane S, Irie F, Tamakoshi A, Gao YT, Wang R, Shu XO, Tsuji I, Kuriyama S, Tanaka H, Satoh H, Chen CJ, Yuan JM, Yoo KY, Ahsan H, Pan WH, Gu D, Pednekar MS, Sauvaget C, Sasazuki S, Sairenchi T, Yang G, Xiang YB, Nagai M, Suzuki T, Nishino Y, You SL, Koh WP, Park SK, Chen Y, Shen CY, Thornquist M, Feng Z, Kang D, Boffetta P, Potter JD. (2011). "Association between Body-Mass Index and Risk of Death in More Than 1 Million Asians." *New England Journal of Medicine*. 364(8): 719-729.
- Glenn E. and Rolland B (2010). "Librarians in biomedical research: new roles and opportunities (SLA Research Grant Findings)." *Information Outlook*. 14(7): 26(24).
- Rolland B and Glenn E. (2010). "Experimenting Outside the Information Center: Non-Traditional Roles for Information Professionals in Biomedical Research." Final grant report, published on SLA Website.

PRESENTATIONS, POSTERS & OTHER PUBLICATIONS

- **Designing infrastructural support for collaborative research.** Invited talk, NCI Healthcare Delivery Research Program all-hands meeting. June 2015, Rockville, MD.
- **Defining the Work of Coordinating Centers.** Betsy Rolland. Conference presentation at Science of Team Science conference, June 2015, Bethesda, MD.
- **Designing infrastructural support for collaborative research.** Invited talk, NCI Epidemiology & Genomics Research Program all-hands meeting. April 2015, Rockville, MD.
- **Work Practices in Coordinating Center Enabled Networks (CCENs).** Betsy Rolland. Conference presentation at ACM Conference on Supporting Group Work, October 2014, Sanibel Island, FL.
- **People, Data and Information: Coordinating the Stuff of Collaborative Research.** Betsy Rolland. Invited talk, Biomedical Research Integrity Series at the University of Washington and Fred Hutchinson Cancer Research Center, August 2013, Seattle, WA.
- **Toward a Definition of Facilitation: The Role of Coordinating Centers in Collaborative Cancer Epidemiology.** Betsy Rolland. Conference presentation at Science of Team Science conference, June 2013, Evanston, IL.
- **Beyond Trust and Reliability: Reusing Data in Collaborative Cancer Epidemiology Research.** Betsy Rolland and Charlotte P. Lee. Poster presentation at Science of Team Science conference, June 2013, Evanston, IL.
- **Beyond Trust and Reliability: Reusing Data in Collaborative Cancer Epidemiology Research.** Betsy Rolland and Charlotte P. Lee. Conference presentation at ACM Conference on Computer Supported Cooperative Work, February 2013, San Antonio, TX.
- **Expanding Teams: Information Professionals and Biomedical Research.** Betsy Rolland and Emily Glenn. Conference presentation at Medical Libraries Association (MLA) Annual Conference, May 2012, Seattle, WA.
- **Coordinating Centers in Cancer Epidemiology.** Betsy Rolland and Charlotte P. Lee. Poster presentation at Science of Team Science conference, April 2012, Chicago, IL.
- **Post-Doctoral Researchers' Use of Preexisting Data in Cancer Epidemiology Research.** Betsy Rolland and Charlotte P. Lee. Position paper for conference workshop on Data-Intensive Science. ACM Conference on Computer Supported Cooperative Work, February 2012, Bellevue, WA.
- **Recontexting Disease: Interpreting Shared Data in Cancer Epidemiology.** Betsy Rolland and Charlotte P. Lee. Conference presentation at Society for Social Studies of Science (4S) Annual Conference, November 2011, Cleveland, OH.
- **Coordinating Centers in Cancer Epidemiology.** Betsy Rolland and Charlotte P. Lee. Poster presentation at Prentice Symposium: Emerging Methodological Issues in Population-Based Chronic Disease Research, October 2011, Seattle, WA.
- **National Network of Libraries of Medicine (NNLM) Rendezvous: Experimenting Outside the Information Center.** Betsy Rolland and Emily Glenn. Webinar presentation, July 2010, Seattle, WA.
- **Experimenting Outside the Information Center: Non-traditional Roles for Information Professionals In Biomedical Research.** Betsy Rolland and Emily Glenn. Conference presentation at SLA (Special Libraries Association) conference, June 2010, New Orleans, LA.
- **Librarians in Biomedical Research: New Roles and Opportunities (SLA Research Grant Findings).** Emily Glenn and Betsy Rolland. Magazine article published in *Information Outlook* (2010:14(7): 26(24)).
- **A Panel Discussion on Innovation and Alignment within Research Environments.** Washington Medical Librarians Association conference, March 2010, Bothell, WA.

- **Out of the Library: Integrating Information Professionals into Collaborative Research.** Betsy Rolland and Emily Glenn. Conference presentation at Society of Research Administrators annual conference, October 2009, Seattle, WA.
- **Showing the Way in SharePoint: What Every Librarian Should Know.** Betsy Rolland and Emily Glenn. Poster presentation at SLA (Special Libraries Association) conference, June 2009, Washington, DC.
- **A Process for Developing Collaborative Portals for International Biomedical Research Collaborations.** Betsy Rolland, Emily Glenn and Jeffrey Kim. Poster presentation at Global Partners in Public Health, PHI08 conference, September 2008, Seattle, WA.
- **Guest lecturer** for two courses at the University of Washington Information School: LIS 584 Knowledge Management (Dr. Jeffrey Kim), LIS 588 Special Libraries (Nancy Gershenfeld).

PROFESSIONAL DEVELOPMENT

- **National Cancer Institute Summer Curriculum:** four-week Principles and Practices of Cancer Prevention and Control course and a one-week Molecular Prevention course, Summer 2015, Bethesda, MD.
- **Certificate in Grantsmanship,** Society of Research Administrators, April 2009, Baltimore, MD.
- **Communications Training.** Attended three-day communications training designed for Gates Foundation grantees in the global health arena. Received training in goal and objective setting, developing a targeted communication plan, using storytelling to advance an agenda and delivering strong presentations, September 2007, Washington, DC.
- **Implementing Microsoft Office SharePoint Server 2007 Training Class,** August 2007, Bellevue, WA.

SERVICE ACTIVITIES

- Scientific Support Team, Workshop on “Precision Cancer Screening in the General Population: Evidence, Epidemiology, and Next Steps” (2015).
- Reviewer, Science of Team Science Conference (2015).
- Reviewer, *Reviews on Recent Clinical Trials*, PLCO Thematic Issues (2015).
- Reviewer, ACM Conference on Computer Supported Cooperative Work (2012).
- Reviewer, ACM Conference on Human Computer Interaction (2011).
- Built conference website for ASIS&T Information Architecture Summit (2006).

ACTIVITIES & AWARDS

- Co-Chair ASIS&T (American Society for Information Science & Technology) UW Chapter (2006-2007). Accomplishments included organizing a fall kick-off event attended by 175 people featuring Information Architecture guru Peter Morville. Raised \$5000 from 13 sponsors to fund this event. Organized a career week panel on information careers in medicine and science.
- Founder iEdge, a UW forum where students research and share information about cutting-edge developments in the areas of technology and information science (April 2006). Events included expert speakers such as Amazon’s personalization manager, a data security expert and student presentations on independent studies and research. Initiated and organized a half-day Information School conference focused on translating research into practice. This conference became an annual event, with a different focus each year.
- Recipient William E. Henry Scholarship (2006)