

EDUCATION:

- Ph.D. Systems Science and Developmental Psychology; Minor in Statistics** 2010
Portland State University, Portland, OR
Dissertation: "Designing Exhibits for Gender Equity"
- M.S. Applied Developmental Psychology** 2005
Portland State University, Portland, OR
Thesis: "Low socio-economic, African American middle school students:
Can a museum visit enhance science learning and attitudes toward science?"
- B.A. Psychology (Summa Cum Laude)** 2001
United States International University (USIU), San Diego, CA

RESEARCH AND EVALUATION EXPERIENCE:

- Researcher** 2010–Present
Research Associate 2007–2010
Exploratorium, San Francisco, CA

Design and implement in-house exhibit research and evaluation projects; report findings to museum staff, funding agencies and the informal learning community. Work closely with developers to coordinate exhibit evaluation studies, analyze and report findings, and brainstorm ideas to achieve project and developer goals. Mentor and train Assistant Evaluators and Research Coordinators on data collection, research and evaluation methods, and report writing. Organize and deliver professional development workshops and conference presentations. Conduct literature reviews to inform exhibit development, research topics and methods, and grant proposals. Provide statistical support for the VR&E Department.

Research and Evaluation Intern

- Institute for Learning Innovation, Annapolis, MD 2004
Developed instruments, analyzed data, co-authored project reports, and participated in project meetings. Provided support for the NSF-funded conference, *In Principle, In Practice*.

Exhibits Evaluation Intern

- Oregon Museum of Science and Industry (OMSI), Portland, OR 2002–2005
Conducted an extensive literature review focused on issues and methods for research with small children that culminated in the development of a handbook for MSI evaluation staff. Conducted comparative research with children and caregivers in the museum context: designed studies and methods; collected, entered, and analyzed data; and reported summary findings. Coordinated thesis to provide pertinent fieldtrip information to MSI and Portland Public Schools.

Contracted Evaluator

- Garibay Group 2006–2007
Created protocols, conducted phone interviews, analyzed qualitative results, and summarized findings for Para Los Niños, a bilingual program aimed at young children and their parents, and Math In Zoos and Aquariums, a nation-wide program that provides workshops that detail ways in which living exhibits staff can incorporate math in their institutions.

- Evergreene Research and Evaluation (at MSI, Portland, Oregon) 2006
Conducted time sampling observations and brief interviews for the remedial evaluation of "Animal Secrets," an exhibit developed for young children and their parents.

- People, Places & Design Research (at MSI, Portland, Oregon). 2004
Conducted interviews for the "Current Science" project for the Science Museum of Minnesota, an NSF-funded multi-site study of visitors' interests regarding science issues in the news.

Statistical Consultant

Oregon Health and Sciences University (OHSU), Portland, OR 2004
Assisted with funding proposal by conducting a meta-analysis of past research findings in the area of home and family care for attention deficit disorder children. Collected published statistical reports, conducted statistical meta-analytic procedures, interpreted and reported results.

Research Assistant

Portland State University, Portland, OR 2002–2004
Aided in transcribing, cleaning, and formatting data for sequential analysis observations.
United States International University (USIU), San Diego, CA 1998–2000
Helped to design and conduct studies, and write proposals and surveys for decision-making research.

TEACHING EXPERIENCE:

Statistics Lab Instructor (Graduate Student Quantitative Statistics Series) 2005–2007
Portland State University, Portland, OR
Developed lab lectures, handouts, and assignments for univariate, multivariate, covariate structural modeling (CFA and SEM), and research design graduate courses. Lectured in laboratory setting, graded assignments, provided student consultation, and proctored exams.

Instructor (Human Development) 2005
Portland State University, Portland, OR
Developed and delivered course materials, assignments, and lectures regarding lifespan human development.

Teaching Assistant (Human, Adolescent, and Child Development) 2002–2005
Portland State University, Portland, OR
Lectured in Human Development classes, provided consultation and assistance during office hours, provided technical support, proctored exams, and produced grading records.

After-School Program Teacher
International Rescue Committee, San Diego, CA 2000–2001
Provided instructional aid and entertaining environment for East African refugees.

After School Program Assistant
NAACP, San Diego, CA 1997–1998
Helped inner-city youth with homework as part of a safe and enjoyable after-school program.

PROFESSIONAL AFFILIATIONS AND SERVICE

Oregon Informal/Free-choice Learning Interest Group (OIFLIG) 2006–Present
Co-founded an interest group to facilitate communication and collaboration among Oregon professionals including affiliates of Oregon State University, Portland State University, David Heil & Associates, and the Oregon Museum of Science and Industry.

Visitor Studies Association 2005–Present
As a member of the Board Development Committee, assisted in updating Board election procedures, recruitment and review of potential Board members, and development of the slate for the current Board election.

American Evaluation Association 2007–2010

Network of Informal Stem Educators (NOISE) 2007
As a member of the funding committee, participated in conversations surrounding the procurement of funds for a NOISE Website and annual conference or retreat.

CONFERENCE PRESENTATIONS AND POSTERS:

- Dancu, T. & Gutwill, J. *Getting inside the visitor experience at immersive exhibits*. Poster presented at Association of Science and Technology, October 2010.
- Dancu, T., Kisiel, J., Dewitt, J., Watson, B. *Field trip research and evaluation: Strategies for working with schools*. Presented at Visitor Studies Association, July 2010.
- Dancu, T. & Gutwill, J. *Rigorously categorizing museum offerings: Practical applications for cluster analysis*. Poster presented at Visitor Studies Association, July 2009.
- Dancu, T. & Duncan, A. *Getting the dialogue started: Lessons learned from the development of a statewide interest group*. Poster presented at Visitor Studies Association, July 2008.
- Dancu, T. *Comparing three methods for measuring children's engagement with exhibits: Observations, caregiver interviews, and child interviews*. Poster presented at Visitor Studies Association, July 2006.
- Dancu, T. *The effect of perceived exhibit relevance on cognitive and affective learning for low socio-economic status, African American students*. Presented at Visitor Studies Association, August 2005.
- Dancu, T. & Cooper, R. *Choice versus action: Are hypothetical choices the same as consequential choices?* Poster accepted to the Society for Judgment and Decision Making, September 2001.

TECHNICAL REPORTS:

- Dancu, T., Gutwill, J., Sindorf, L. (2009). *Geometry Playground Pathways study*. Unpublished manuscript, Exploratorium, San Francisco (15 pages).
- Dancu, T. (2007). *Designing for gender equity*. Unpublished manuscript, Exploratorium, San Francisco (13 pages).
- Dancu, T. & Storksdieck, M. (2004). *Formative evaluation: CAUSE summer camp*. Unpublished manuscript, New Jersey State Aquarium (40 pages).
- Ellenbogen, K., Dancu, T., & Kessler, C. (2004). *Microscope Imaging Station Summative Evaluation*. Unpublished manuscript, Exploratorium, San Francisco (45 pages).
- Jones, D. & Dancu, T. (2004). *Goosebumps!: The Science Behind Feeling Scared: Formative Evaluation*. Unpublished manuscript, California Science Center (36 pages).
- Dancu, T., Clark, J., Leo, M. C., & Kendall, J. (2004). *Meta-analysis of the effect of home and family-based case management interventions for families with at-risk children on child outcomes and family functioning*. Unpublished manuscript, Oregon Health and Sciences University School of Nursing (5 pages).
- Dancu, T. (2003). *Handbook of research methods: Conducting research with children two to seven years old*. Unpublished manuscript, Oregon Museum of Science and Industry Evaluation Department (189 pages).

COMPUTER SKILLS:

Proficiency: SPSS, AMOS, Excel, Power Point, Word, StudioCode, Websurveyor, SurveyMonkey, Dreamweaver, Vensim, and academic search engines

SCHOLARSHIPS AND AWARDS:

<i>Tuition and stipend fellowship from PSU</i>	2002–2007
<i>Oregon Sports Lottery Scholarship</i>	2005–2007
<i>Psi Chi Honor Society</i>	2000–2010
<i>Presidential Scholarship from USIU</i>	1997–2001
<i>National Dean's List</i>	1997–2001