

APPLIED RESEARCH + EVALUATION
JULIE A. SHATTUCK
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EXPERTISE

Senior evaluation and research consultant with experience working in partnership with foundations, state and federal agencies, non-profit organizations, and universities. Design and manage comprehensive evaluation projects in collaboration with client organizations. Utilization-focused evaluations provide extensive documentation of formative and summative outcomes and include clear, action-oriented process improvement recommendations. Prepare descriptive reports, briefings, and analyses to contribute to program improvements, organizational effectiveness, and policy agendas. Provide site-based evaluation technical assistance and training to assist organizations in internalizing evaluation as a management practice for organizational and programmatic improvement. Studies are aligned with the American Evaluation Association's *Guiding Principles for Evaluators* and the Joint Committee on Evaluation Standards.

EMPLOYMENT HISTORY

1992-
present **Principal and Lead Investigator**, Applied Research + Evaluation, Santa Cruz, CA

Design and manage evaluation, research, and policy studies in collaboration with client organizations. Projects span workforce development, public health, environmental and ocean education, formal and informal science education, professional development, and youth and family sectors. Work with programs emphasizes staff and stakeholder involvement in planning, instrument design, data collection, and interpreting results. A combination of qualitative and quantitative methodologies is used, including mixed methods, pretest-posttest survey designs, quasi experimental studies, case studies, focus groups, and longitudinal tracking to assess and portray initiatives. Prepare logic models, reports, briefings, and presentations to communicate results, enhance program design, improve organizational effectiveness, and guide policy decisions. Provide site-based evaluation coaching and technical assistance to assist programs in creating evaluation systems to assess, monitor, and portray their outcomes and accomplishments.

1992-
2000 **Evaluation Consultant**, Inverness Research Associates, Inverness, CA

Conducted evaluation, research, and policy studies for educational improvement and professional development projects on the federal, state, and local levels. Activities included evaluation planning and consultation, instrument design, data collection, and analysis. Generated and presented formative and summative evaluation reports focused on improving project design and strategy, as well as profiles, case studies, and cross-project analyses for external audiences.

1998-
2000 **Evaluation Coach**, Aguirre International, San Mateo, CA

Served as an evaluation coach for Project STAR (Support and Training for Assessing Results). Provided evaluation technical assistance to AmeriCorps national and state programs throughout the United States. Through individualized on-site visits and coaching, helped build staff capacity to set measurable outcomes, design evaluation plans, develop evaluation instruments, identify data collection strategies, develop data analysis plans, and prepare reports for their stakeholders. Monitored project progress and provided follow-up technical assistance.

1998 **Evaluation Consultant**, Community Network for Youth Development, San Francisco, CA

Served on an evaluation resource team that provided evaluation coaching and technical assistance to youth agencies in San Francisco. Helped design and facilitate workshop sessions on evaluation methodology for youth workers and administrators. Assisted with evaluation of overall initiative funded by the Dewitt-Wallace Foundation.

1989-1992 **Assistant Director/Evaluator**, Life Lab Science Program, University of California, Santa Cruz, Santa Cruz, CA

Co-managed elementary science curriculum development project with a million dollar budget funded by the National Science Foundation. Directed nationwide field test of curriculum materials. Designed evaluation systems and instruments to collect data on student achievement, teacher instruction, and school-wide change. Conducted site visits to collect data and monitor program progress. Prepared and presented evaluation reports. Planned and helped present teacher workshops. Represented Life Lab at national science education conferences.

1986-1989 **Director**, Project LEAP (LEarning About Plants), Cornell University, Ithaca, NY

Directed elementary science curriculum development project funded by the National Science Foundation. Activities included curriculum and program planning, administration, managing \$500,000 budget, project evaluation, supervising project staff, and serving as a liaison with government, state, and local education officials. Coordinated nationwide pilot test program and collection of evaluation data.

1984 **Research Associate**, Partnership for Rural Improvement, Washington State University, Pullman, WA

Conducted research on a W.K. Kellogg Foundation initiative in collaboration with four university system researchers to identify factors and processes that promote sustainability in innovative programs and organizations. Co-wrote and presented final report.

PROJECT PORTFOLIO

Below is a list of selected relevant current and past projects. For each of the projects listed we serve or served as external evaluators, researchers, or collaborators.

Institutional and Curriculum Reform

California State University, Monterey Bay, *Computer Science and Informational Technology Bachelor's Degree in 3 Years (CSIT-In-3)* (sponsored by the National Science Foundation)

California State University, Monterey Bay, *Increasing STEM Degree Attainment: Strengthening Articulation, Transfer, Retention & Graduation* (sponsored by the United States Department of Education)

Hartnell College, *Salinas Valley Consortium for Sustainable Energy, Education, and Research* (sponsored by the National Science Foundation)

University of California, Santa Cruz, *A Web-Enabled Interactive Remote Laboratory for Renewable Energy* (sponsored by the National Science Foundation)

California State University, Monterey Bay, Linking Curriculum and Student Internships to USDA Mission Critical Occupations (sponsored by the United States Department of Agriculture)

California State University, Monterey Bay, Computer Science and Informational Technology Bachelor's Degree in 3 Years (CSIT-In-3) (sponsored by the National Science Foundation)

California State University, Monterey Bay, Increasing STEM Degree Attainment: Strengthening Articulation, Transfer, Retention & Graduation (sponsored by the United States Department of Education)

Hartnell College, Salinas Valley Consortium for Sustainable Energy, Education, and Research (sponsored by the National Science Foundation)

University of California, Santa Cruz, A Web-Enabled Interactive Remote Laboratory for Renewable Energy (sponsored by the National Science Foundation)

California State University, Monterey Bay, Linking Curriculum and Student Internships to USDA Mission Critical Occupations (sponsored by the United States Department of Agriculture)

California State University, Monterey Bay, Increasing Transfer, Retention, and Graduation Rates in STEM Disciplines Program (sponsored by the United States Department of Education)

San Francisco Unified School District and University of California, San Francisco Medical School, City Science Project (sponsored by the National Science Foundation)

El Centro School District, Valle Imperial Local Systemic Change Project (sponsored by the National Science Foundation)

Science, Technology, Engineering, and Mathematics (STEM) Education

University of California, Berkeley, Berkeley SETI Research Experiences for Undergraduates (sponsored by the National Science Foundation)

Growth Sector, STEM Core Internship - Workforce Accelerator (sponsored by the National Science Foundation)

Clark College, S-STEM Scholarships in STEM Program (sponsored by the National Science Foundation)

California State University, Monterey Bay, Ronald McNair Postbaccalaureate Achievement Program (sponsored by the United States Department of Education)

University of California, Santa Cruz, Summer Undergraduate Research Fellowship Program (sponsored by the National Science Foundation)

Harvard University and California Academy of Science, Study of the Life on Earth Exhibit (sponsored by the National Science Foundation)

California State University, East Bay, Ronald McNair Postbaccalaureate Achievement Program (sponsored by the United States Department of Education)

Hartnell College, Summer Undergraduate Math and Science Program (sponsored by the National Science Foundation)

California State University, Monterey Bay, *Pipeline to Success in Agriculture, Watershed, and Natural Resources Sciences* (sponsored by the United States Department of Agriculture)

University of California, Santa Cruz, *Assessing Scientific Inquiry and Leadership Skills* (sponsored by the National Institute of General Medical Sciences, National Institutes of Health)

University of California, Santa Cruz, Center for Adaptive Optics, *National Science Foundation Science and Technology Center Education Program* (sponsored by the National Science Foundation)

University of California, Office of the President, *COSMOS - California Summer School for Mathematics and Science* (sponsored by the California State Legislature)

University of California, Santa Cruz, *ACCESS – Baccalaureate Bridge to the Biomedical Sciences Program* (sponsored by the National Institutes of Health)

California Postsecondary Education Commission, *Dwight D. Eisenhower Assessment and Dissemination Project* (administered by the Association of Independent California Colleges and Universities)

Girls, Women, and Underrepresented Groups in Science Education and Career Pathways

University of California, Santa Cruz, Center for Biomolecular Science & Engineering, *Research Mentoring Institute Evaluation Study* (sponsored by the National Human Genome Research Institute at the National Institutes of Health)

Chabot Space and Science Center, *Techbridge Program: Encouraging Girls in Technology* (sponsored by the Gordon and Betty Moore Foundation)

The Exploratorium, *School in the Exploratorium Program* (sponsored by the National Science Foundation)

University of California, San Francisco Medical School, *Women's Triad Program in Science Education* (sponsored by the National Science Foundation)

San Francisco State University, *Community Science Workshops for California* (sponsored by the National Science Foundation)

Oceans and the Environment

Hilton Bialek Habitat, *Toyota TogetherGreen Audubon Project* (sponsored by Toyota and the National Audubon Society)

Hilton Bialek Habitat, *MEarth Plastic Pollution Initiative* (sponsored by the California Coastal Commission and the National Atmospheric and Oceanic Agency)

Robert Down Elementary School, *Making Student Connections: Our Actions, Our Watershed, Our Ocean* (sponsored by the National Oceanic and Atmospheric Administration)

Office of National Marine Sanctuaries, National Oceanic and Atmospheric Administration, *Evaluation of the Aquarius 2010 Mission: If Reefs Could Talk* (sponsored by the National Marine Sanctuaries Foundation and the AT&T Foundation)

San Francisco Crissy Field Center and the Urban Watershed Project, *An Evaluation of Project WISE: Watersheds Inspiring Student Education* (sponsored by the National Oceanic and Atmospheric Administration and the Crissy Field Center)

Resource Conservation District of Santa Cruz County, *Watershed Cruzin' Teacher Education Program* (sponsored by the National Oceanic and Atmospheric Administration)

Ecology Action, *Our Water Our World Project* (sponsored by the National Oceanic Atmospheric Administration)

Monterey Bay National Marine Sanctuary, *Voices of the Bay – Fisheries Education Project* (sponsored by the National Oceanic and Atmospheric Administration)

National Science Foundation and the Consortium for Ocean Research and Education, *National Ocean Sciences Bowl* (sponsored by the National Science Foundation)

Long Marine Laboratory, University of California, Santa Cruz, *Windows to Discovery* (sponsored by the William Randolph Hearst Foundation)

Teacher and University Faculty Professional Development

University of California, Santa Cruz Education Partnership Center, *Writing Faculty Outreach Program* (sponsored by the Education Partnership Center)

The Exploratorium, *Teacher Induction Program* (sponsored by the National Science Foundation)

California State University, San Bernardino, *Science Teacher Preparation Program* (sponsored by the National Science Foundation)

The Tech Museum of Innovation, *Extending Science Education: Teaching With and About Technology Program* (sponsored by the National Science Foundation)

CERTIFICATIONS AND EDUCATION

Certification in Evaluation and Organizational Development, Fielding Graduate Institute, Santa Barbara, CA

Certification in Social and Behavioral Research for Investigators and Key Personnel (National Science Foundation)

Certification in Human Participants Protection Education for Research Teams (National Institutes of Health)

M.A. degree in Adult and Continuing Education, Washington State University, Pullman, WA

Thesis: Assessment of the Academic Needs of Washington State University's Agency for International Development (USAID) Participant Training Students from Indonesia, Kenya, Lesotho, and Sudan

B.A. degree in Park and Recreation Administration, Program Planning emphasis, Minor in Sociology, Washington State University, Pullman, WA

PUBLICATIONS

Selected annual and final reports from the projects listed above.

Brenick, A., Shattuck, J., Donlan, A., Duh, S., & Zurbriggen, E. L. "Empowering children with safety-skills: An evaluation of the Kidpower Everyday Safety-Skills program." *Child and Youth Services Review*. Advance online publication. doi: 10.1016/j.childyouth.2014.06.007, 2014.

Brenick, A., Shattuck, J., Donlan, A., Duh, S., & Zubriggen, E. "Promoting Safety Skills in Children: A Quasi-Experimental Evaluation of the Kidpower Everyday Safety Skills Program." Poster presented at the annual meeting of the Society for Research in Child Development, Seattle, WA, 2013.

O'Leary, D., Shattuck, J., Kubby, J. "An Online, Interactive, Renewable Energy Laboratory." IEEE Transactions on Education, 2012.

Chemers, M., Shattuck, J. et al. "Understanding Undergraduate and High School Science Support Programs: A Theory-Driven, Interdisciplinary, Multimethod Approach," Paper presented at the American Evaluation Association Annual Conference, Portland, OR, 2006.

Kogan, D., Shattuck, J. "Science Support Programs at the University of California, Santa Cruz: The Context for the AScILS Research Project," Technical Report, 2006.

Ash, D., Shattuck, J. et al. "Developing a Community of Inquiry Practice for Scientists Who Teach," Paper presented at the American Educational Research Association Annual Meeting, San Diego, CA, 2004.

Austin, J., Shattuck, J. Evaluation of the Great Valley Center. Report to the William and Flora Hewlett Foundation and the James Irvine Foundation, 2004.

Austin, J., Shattuck, J. Evaluation of the Community Foundation Initiative. Report to the James Irvine Foundation, 2003.

St. John, M., Shattuck, J. et al. A Study of the California Dwight D. Eisenhower Mathematics and Science Education State Grant Program - Case Studies. Inverness Research Associates, 1995.

Life Lab Science Program. Life Lab Science Kindergarten, First, Second, and Third Grade Elementary Science Teaching Manuals. Contributing author, Videodiscovery, 1992.

Shattuck, J., Jimmerson, R., Trail, T. "Academic Training Needs of Indonesian, Kenyan, and Sudanese Participant Students at Washington State University." Paper presented at the National Seminar on International Education and Training, Washington, DC, 1986.

PROFESSIONAL ACTIVITIES

- Member, American Evaluation Association
- Santa Cruz City Commissioner, Downtown Commission (two 4-year terms)
- Graduate, Leadership Santa Cruz County
- Executive Board Member, Kidpower International