

Bruce D. Marron

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Identity

Passport, USA: A36267253 (exp. 14 Mar 2034)
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Education

Doctoral studies, Portland State Univ. (PSU) and North Carolina State Univ. (NCSSU), 2015-2017
Graduate Certificate in Statistics, PSU, 2017
M.S., Systems Science, PSU, 2015
Graduate Certificate in Sustainability, PSU, 2012
Fine Arts studies, PSU, 1999-2000
Fine Arts studies, University of New Mexico, 1996-1997
M.S., Chemistry, New Mexico Tech, 1989
B. Sci. Ed., University of New Mexico, 1985

Certificates/Licenses/Internships/Trainings

- TEFL Certificate, UC Berkeley/TeachAway, 2021
- State of Oregon Teaching License 77682 (exp. 2024)
- Contract Administration Training Certificate, DAS PS, State of Oregon, 2019
- Principles and Practices of Air Pollution Control, Weststar Council, 2019
- Internship SARAR Transformación, S.C., Tepoztlán, Mexico, 2012
- Risk Assessment Seminar, Environmental Educational Enterprises, 1994
- Certificate, Project Dev. and Env. Documentation, Fed. Highway Admin., 1994
- Hazardous Waste Management under the Resource Conservation and Recovery Act (RCRA), Environmental Resource Center, 1991

Academic Awards

- National Science Foundation ESUR-IGERT Fellowship, Portland State University
- Presidential Scholarship, University of New Mexico

Languages and Programs

Spanish (bilingual); Linux, R, BUGS, Python, AWK, sed, \LaTeX , OpenOffice, Trello, Slack, InkScape, GRASS GIS, QGIS

Relevant Teaching Experience

Avalon International School, CDMX, México Jan 2024 - Present
(Gonzalo Alejandro Esteva Luna Parra, Director)
English language arts teacher and curriculum development specialist for 5th grade, 8th grade, and 9th grade ESL students. Taught under the auspices of the International Baccalaureate (IB) Program for 5th grade, and have developed a specialized curriculum for 8th and 9th grade students. My middle school Second Language Acquisition (SLA) curriculum couples a competence driven, communicative approach with a task-based teaching approach. The emphasis of my curriculum is on literature: the reading, analysis, discussion, and written critique of award-winning English language novels. Grammatical supplements are provided from Raymond Murphy's, *English Language in Use (5th ed.)*. My curriculum also includes a solid dose of international perspective, as well as Americana. Given the needs of the students and the lack of access to materials, the middle school curriculum is only about 50% student-centered.

Catholic Charities, Portland, Oregon 2015
(Vilma Chan Vasquez, School Based Services Program Manager)
Teacher and curriculum development specialist for *Puentes*, an eight-week, summer mathematics program for Latino youth. The Puentes program provided a structured but home-like environment for kids needing extra help in English and mathematics. Much of the interaction and instruction was in Spanish.

Complexity Explorer Project, Portland, Oregon

2013

(Dr. Melanie Mitchell, Director)

Technical reviewer and editor for educational documents detailing some of the agent-based simulation models to be used by the Santa Fe Institute as part of their Complexity Explorer Project curriculum.

Portland Public School, Portland, Oregon

2000-2010

(Toni Hunter, Grant HS; Peg Lewis, Kellogg MS)

Teacher (chemistry, foundations of physics and chemistry, forensic science (HS); math, science and health (MS)) and curriculum development specialist; author of HS curriculum entitled, "Sustainability: Transitioning to Adaptive Resilience in a Post-Carbon World"; author of spreadsheet-based, qualitative analysis curriculum; logistics manager of chemistry lab equipment and supplies; recruitment and management of student and parent volunteers. First aid, CPR, and AED trained.

Starfire Music, Albuquerque, New Mexico

1996-1998

(Bruce Marron, Owner)

Guitar and music instructor to adults and kids.

Relavant Arts Experience

MOZ, Ciudad de Mexico, Mexico

2023

Fundador del colectivo MOZ, productor y musico para el espectaculo, "CONTINENTAL Pop Rock Theater". El función fue una exploración de música rock y pop mezclado con teatro y performance art. Presentando composiciones musicales completamente originales y algunos covers. Presentando también obras originales de teatro y performance art. Se llevó a cabo en el *Foro Cultural Coyoacanense Hugo Argüelles*, el día 26 de agosto 2023.

La Marconi, Ciudad de Mexico, Mexico

2023

Guitarista de jazz y pop para shows de La Marconi (cantante) en Hermes Music Club (Centro Histórico) y Ciao Mamma (Interlomas).

Lucky vs The Bomb, Portland, Oregon

2001-2005

Singer-songwriter and performer for the indie rock band *Lucky vs The Bomb*.

Albuquerque Civic Light Opera, Albuquerque, New Mexico

1996-1999

Orquestral guitarist for the musical productions *Godspell*, *Sound of Music*, *Camelot*, and *Fiddler on the Roof*.

Relevant Scientific and Managerial Experience

Oregon Dept. of Environmental Quality, Portland

2018 - 2021

(Rachel Sakata, Program Lead)

Program Analyst 3 for the Air Quality Planning section, Oregon Dept. of Environmental Quality. Program coordinator and project manager performing all tasks related to the design, development, implementation, and maintenance of the Oregon Clean Vehicle Rebate Program (OCVRP). The OCVRP awards cash rebates to qualified applicants for the purchase of electric vehicles. After the OCVRP was granted legislative approval, DEQ was tasked with the direct implementation of the program rules (OAR 340-270). The Program Coordinator was then tasked with the design, development, and implementation of a new system for the efficient and accurate award of rebates. Major tasks included

- *The "scratch-build" of a complete and integrated system for the acceptance, evaluation, and award of rebates for electric vehicles* – The system included a variety of databases and records structures, a robust QAQC program, and successfully awarded over \$15M in rebates before being turned over to The Center for Sustainable Energy, a private industry contractor.
- *The design, development, and implementation of a complete quality assurance program for the OCVRP* – The QAQC program included all aspects of procedural management, data management, records management, audits, and corrective actions. The QAQC program was roughly based on NQA-1 standards.
- *The procurement and oversight of third-party services for the OCVRP* – This included writing and posting Request for Proposals (RFPs), review and selection of third-party bids, contract negotiations, contract procurement, and contract administration.
- *The training and oversight of rebate processing staff* – The in-house processing of OCVRP rebates was done primarily with temporary staff. To ensure the consistency and accuracy of the rebate award process, a training program was designed and implemented. The entire rebate award process was under control of the Quality Assurance Program Plan for the OCVRP.

- FilmProfit, LLC, Portland* 2018
(Jeffery Hardy, Owner)
Data science consultant for the development of financial risk assessment methodologies for the film industry. Methodologies include discrete scenario analysis (risk assessment using Monte Carlo bootstrap analysis) and continuous simulation analysis (risk assessment using multivariate Monte Carlo simulation). All analyses and scripts run in R and BUGS. Additional work included (1) the development of data pre-processing and data cleaning algorithms using text-based editors (Awk and Sed) in Linux; and (2) a complete data management program for proprietary film data. The data management system is capable of producing clean, portable datasets; creating new and unique datasets on a per project basis; and building an expansive dataset library without the need for massive storage or complicated file indexing.
- Earth Advantage, Inc., Portland* 2018
(Jordan Jordan, Building Material Reuse Consultant)
Regulatory compliance consultant performing research, design, and production of two template documents for the "Safe + Sustainable Certification" program. The documents, an erosion and sediment control plan and a tree and vegetation plan, were written (1) to comply with all pertinent federal, state, and local regulations, and (2) to be readily accessible and easily completed by deconstruction contractors. In addition to the contracted templates, Earth Advantage, Inc. was supplied with a memo for each template that provided the regulatory framework and the rationale used to develop the template. The erosion and sediment control plan was designed to ensure compliance with construction activities under the National Pollutant Discharge Elimination System (NPDES) regulations of the Clean Water Act (40 CFR 122.26(b)(15)(i)(B)) and Exhibit 1 to 40 CFR §122.26(b)(15)). The tree and vegetation plan was designed to ensure compliance with the City of Portland's Title 11 code.
- Dynamic Ecosystems and Landscapes Lab, Portland, Oregon and Raleigh, North Carolina* 2016-2018
(Dr. Robert Scheller, Director)
Project manager and QA/QC specialist for updates to the LANDIS-II landscape simulation model. Tasks include development of scheduling and productivity enhancement tools, tracking work flows, hiring and oversight of programmers, monitoring programmer performance, records management, document version control, financial accounting, weekly status reports, and simulation model testing.
- United Way of the Columbia-Willamette, Portland, Oregon* 2015
(Alejandro Queral, Director Systems Planning and Performance)
Consultant (pro bono) and program development specialist; author of the Machine Learning Pilot Project (MLPP) proposal document, "*Machine Learning Tools for Social Service Providers Funded by the United Way of the Columbia-Willamette*" and the MLPP final report, "*The Use of a Naive Bayes Classifier on Social Services Data*". The MLPP was designed to determine if simple machine learning tools would prove useful to individual social service organizations in helping them assess their own system of social service provisioning.
- Oregon Environmental Council, Portland, Oregon* 2014
(Allison Hensey, Sustainable Agriculture and Watersheds Program)
Consultant and technical specialist; author of a white paper evaluating the impact of reactive nitrogen from agricultural activities on human health and the environment. The paper included recommendations and suggested strategies aimed specifically at conserving natural resources for future Oregonians.
- Re-Generar, Portland, Oregon* 2014-2018
(Dr. Leopoldo Rodriguez, President)
Founding board member and executive director; designer responsible for logo creation and letterhead; author responsible for production of the 501(c)(3) application to the IRS; office manager responsible for documentation and record keeping. Re-Generar's mission is to promote sustainable development by providing non-profit consulting services directly to on-the-ground, local organizations that work for social justice, economic equity, and environmental health. The organization views sustainable development as transformations that are crafted to maximize human well-being and minimize planetary harm. The organization fully supports the United Nations Millennium Development Goals.
- Marron and Associates, Inc., Albuquerque, New Mexico* 1994-1998
(Ken Marron, CEO and founder)
Project manager and regulatory compliance specialist; author responsible for production of NEPA environmental assessment documents, Section 404/401 permit applications, NPDES permit applications, and environmental regulatory compliance strategies for hazardous and solid waste disposal; guest lecturer in environmental regulatory compliance at Univ. of New Mexico; presenter and facilitator at NEPA public meetings.

Benchmark Environmental Corporation, Albuquerque, New Mexico

1990-1994

(Karen Knudtsen, VP and Director of TRU and Mixed Waste Services Group)

Project manager and regulatory compliance specialist; project manager responsible for production of a report on the comparative assessment of chemical and radionuclide risks for the Waste Isolation Pilot Plant (WIPP); responsible for setting the SW-846 method detection limits for transuranic, mixed waste analysis at Los Alamos Nat'l Lab (LANL); author of position paper defining Dept. of Energy's RCRA compliance approach to EPA's headspace flammability requirements; author of executive summary of the WIPP Quality Assurance Program Plan; author of the section on radiological monitoring of foodstuffs for the Environmental Monitoring Plan in support of LANL's compliance with DOE Orders 5400.1 and 5400.5.

Organizations and Service

Union of Concerned Scientists (member)

On-the-Move Community Integration, founding board member and volunteer (2005-2010)

Richmond Neighborhood Association, board member and committee chair (2010-2011)