

Education

- 2008 Ph.D. (with Distinction), Department of Anthropology, University of Hawai'i, Mānoa
Thesis: *The Genetic Architecture of the Late Prehistoric and Proto Historic Rapa Nui (Easter Islanders).*
Committee: Terry L. Hunt (chair), Rebecca Cann, Michael Pietruszewsky, Nina Etkin, Terrence Lyttle, Carl P. Lipo (Cal State Long Beach)
- 1998 M.A., Department of Anthropology, University of Washington, Seattle
Advisor: Robert C. Dunnell
- 1990 B.A., Department of Anthropology, University of Colorado, Boulder

Research Interests

- Archaeogenetics, migration and colonization; phylogenetic modeling and relatedness estimation methods.
- Archaeological chemistry, trace elements and stable isotopes in biological and geological artifacts.
- Skeletal residue analysis, microfossils and post-depositional alteration of bone.
- Performance analysis of archaeomaterials.
- Remote sensing, low-altitude aerial reconnaissance.
- Oceanic prehistory and human adaptation (Fiji and Rapa Nui) and bioarchaeological impacts of bronze metallurgy (Eastern Europe – Armenian Caucasus and Russian Ural Mountains).

Professional Experience

Teaching

- 2011— Affiliate Faculty, Department of Biological Sciences, Idaho State University
2010— Affiliate Faculty, Environmental Science and Management, Idaho State University
2008— Assistant Professor, Department of Anthropology, Idaho State University
2005 – 2007 Laboratory Instructor, IIRMES, California State University, Long Beach
2002 – 2004 Archaeological Field School Instructor, Pacific Prehistory Project, Rapa Nui (Easter Island)
1999 – 2001 Archaeological Field School Teaching Assistant, Pacific Prehistory Project, Waya Island, Fiji and Rapa Nui

Research

- 2011— Affiliate Curator of Archaeology, Idaho Museum of Natural History
2010— Principal Investigator – Archaeological and forensic genetics, Molecular Research Core Facility (MRCF) and Ancient DNA Extraction Laboratory (ADEL), Idaho State University
2008— Research Lead – Archaeometry and biological trace metal analysis, Center for Archaeology, Materials and Applied Spectroscopy (CAMAS), Idaho State University
2004 – 2007 Research Associate – Archaeology and environmental microchemical analysis, Institute for Interdisciplinary Research in Materials, Environments and Society (IIRMES), Cal State University, Long Beach
1998 – 2003 Research Assistant – Ancient DNA extraction, amplification and methods development, Ecological Genetics Laboratory, Dr. Rebecca Cann, University of Hawai'i, Mānoa

Other

- 2010— Director, Joint Anthropology/Biosciences Ancient DNA Extraction Laboratory (ADEL)
2010— Forensic analyst and trial expert, Nampa, Idaho Prosecuting Attorney's Office
2009— Contract Analyst, Trace Metals and Environmental Contaminants, ISU Technical Safety Office
2008— Consulting Forensic Anthropologist, Bonneville County (Idaho) Sheriff's Department

*Publications (**denotes student author)*

- In Prep.* *The Past in Motion: Archaeological Perspectives on the Circulation of People and Objects* (co-edited with David Peterson).
- In Prep.* Dudgeon, J. V. and **M. Tromp. Plant microfossils from human dental calculus shed new light on dietary subsistence patterns of late prehistoric and protohistoric populations in Rapa Nui. For submission to *International Journal of Osteoarchaeology*.
- In Prep.* Dudgeon, J. V. Mitochondrial DNA analyses of prehistoric Rapanui (Easter Islanders). For submission to *American Journal of Physical Anthropology*.
- In Review* Dudgeon, J. V., **M. Tromp, D. L. Peterson and B. K. Hanks. Emerging Bioarchaeological Applications for LA-ICP-MS. *Recent Advances in Laser Ablation ICP-MS for Archaeology* (L. Dussubieux, B. Gratuze and M. Golitko, eds).
- In Review* Peterson, D., J. V. Dudgeon, **M. Tromp, A. Gevorkyan, K. Meliksetian and A. Bobokhyan. LA-ICP-MS Analysis of Prehistoric Copper and Bronze Metalwork from Armenia. *Recent Advances in Laser Ablation ICP-MS for Archaeology* (L. Dussubieux, B. Gratuze and M. Golitko, eds).
- In Review* Dudgeon, J. V., H. Hogue and H. Neff. Mechanism of diagenetic alteration producing blackish staining on pauper's grave remains from Mississippi. *Journal of Archaeological Science*.
- In Press* Lipo, C. P., **V. Harper, J. V. Dudgeon and R. C. Dunnell. Beveled Bifaces and ballistics technology. *American Antiquity*.
- In Press* Golitko, M., J. V. Dudgeon, H. Neff and J. Terrell. Identification of Post-Depositional Chemical Alteration of Ceramics from the North Coast of Papua New Guinea (Sanduan Province) by Time of Flight-Laser Ablation- Inductively Coupled Plasma-Mass Spectrometry (TOF-LAICP- MS). *Archaeometry*.
- 2011 **Abdullah, M.M., ** A. R. Ly, W. A. Goldberg, ** K. A. Clarke-Stewart, J. V. Dudgeon, ** C. G. Mull, ** T. J. Chan, ** E. E. Kent, A. Z. Mason and J. E. Ericson. Heavy Metal in Children's Tooth Enamel: Related to Autism and Disruptive Behaviors? *Journal of Autism and Developmental Disorders* DOI: 10.1007/s10803-011-1318-6.
- 2008 Dudgeon, J. V. The Genetic Architecture of the Late Prehistoric and Proto Historic Rapa Nui (Easter Islanders). Ph.D. Dissertation, University of Hawai'i, Mānoa.
- 2008 Dudgeon, J. V. *Book Review: Janaab Pakal of Palenque: Reconstructing the Life and Death of a Maya Ruler*. Tiesler, V., A. Cucina (eds.). *Latin American Antiquity* (1):19.
- 2007 Dudgeon, J. V., W. Balsanek, H. Neff, A. Saint. Exploring the Analytical Utility of LA-ICP-TOFMS for the Provenancing of Archaeological Materials. Special session publication, *Federation of Analytical Chemistry and Spectroscopy Societies (FACSS)*.
- 2007 Dudgeon, J. V., H. Neff, A. Saint and W. Balsanek. Evaluating the precision requirements for isotope ratio determination of archaeological materials using LA-TOF-ICP-MS: Increasing Ratio Precision. In M. D. Glascock, R. J. Speakman and R. S. Popelka-Filcoff, (eds), *Archaeological Chemistry: Analytical Techniques and Archaeological Interpretation*. Oxford University Press.
- 2007 Cucina, A., J. Dudgeon and H. Neff. Methodological strategy for the analysis of human dental enamel by LA-ICP-MS. *Journal of Archaeological Science* 34(11):1884-1888.
- 2007 **Hale, L.F., J.V. Dudgeon, A.Z. Mason and C. Lowe. Elemental signatures in the vertebral cartilage of the round stingray, *Urobatis halleri*, from Seal Beach, California. *Environmental Biology of Fishes, Special Edition: Age and growth of chondrichthyan fishes: new methods, techniques, and analyses*.
- 2006 Dudgeon, J. V. Phylogeography of archaeological populations: A case study from Rapa Nui (Easter Island). In C. P. Lipo, M. J. O'Brien, M. Collard and S. J. Shennan (eds), *Mapping Our Ancestors: Phylogenetic Approaches in Anthropology and Prehistory*, pp. 131-148. New York: Aldine.

Conference Presentations

- In Prep.* Dudgeon, J. V., **M. Tromp and **A. Commendador. Archaeogenetics and paleodemographic estimation of founding populations, and features of residential geography on Rapa Nui (Easter Island). For presentation at the 81st annual meeting of the American Association of Physical Anthropologists, April 11 – 14, 2012
- In Prep.* **Commendador, A., **W. Rauh, J. V. Dudgeon, **K. Esh and B. Finney. Stable Isotope Diet Reconstruction in Prehistoric Rapa Nui and its Implications for Models of Resource Depletion. For presentation at the 81st annual meeting of the American Association of Physical Anthropologists, April 11 – 14, 2012

- In Prep.* **Tromp, M. and J. V. Dudgeon. Dietary microfossils from Rapa Nui dental calculus: Does regional variability provide evidence for subsistence practices? For presentation at the 81st annual meeting of the American Association of Physical Anthropologists, April 11 – 14, 2012
- In Prep.* **Holmer, N. A., **M. Tromp and J. V. Dudgeon. Bone char as a proxy for archaeological bone? An assessment of diagenetic element uptake in biological material. For presentation at the 77th Annual Meeting of the Society for American Archaeology, April 18 – 22, 2012
- In Prep.* **Nelson, A. M., **D. Bastakoti and J. V. Dudgeon. Do performance criteria explain variation in archaeological selection and use of Snake River obsidian? For presentation at the 77th Annual Meeting of the Society for American Archaeology, April 18 – 22, 2012
- In Prep.* **Meredith, C. and J. V. Dudgeon. Analysis of diagenesis in dental materials using FTIR as an indicator for potential further biomolecular analysis: a case study in the Pacific. For presentation at the 77th Annual Meeting of the Society for American Archaeology, April 18 – 22, 2012
- In Prep.* Peterson, D. L., P. Kuznetsov, J. V. Dudgeon, **B. Paige, **M. Tromp and O. Mochalov. Microstructure and trace element composition of Late Bronze Age gold work from the Middle Volga (Samara, Russia, ca. 1800-1700 BC): Investigation of diffusion bonding and sources. For presentation at the 77th Annual Meeting of the Society for American Archaeology, April 18 – 22, 2012
- In Prep.* **Stock, E., J. V. Dudgeon, **Tromp, M. and E. E. Cochrane. Evaluating an SEM-EDS-based methodology for ceramic chemical petrography. For presentation at the 77th Annual Meeting of the Society for American Archaeology, April 18 – 22, 2012
- 2011 Peterson, D. L. and J. V. Dudgeon. Archaeometallurgy in the South Caucasus: Technological Artifacts as Historical Documents. Presented at the Rocky Mountain European Scholars Consortium, University of Utah, Salt Lake City, October 20, 2011
- 2011 **Commendador, A., B. Finney and J. V. Dudgeon. Isotopic Analyses of Small Mammals from the Wasden Site, Idaho as Indicators of Climate Change on the eastern Snake River Plain. Presented at the 76th Annual Meeting of the Society for American Archaeology, March 30 – April 3, 2011
- 2011 **Tromp, M. and J. V. Dudgeon. SEM-EDS is an effective tool for population-level analysis of microfossils extracted from prehistoric human dental calculus. Presented at the 76th Annual Meeting of the Society for American Archaeology, March 30 – April 3, 2011
- 2011 **Meredith, C., **M. Tromp, D. Peterson, J. Dudgeon, K. Meliksetian and A. Gevorkyan. New Standards in the Analysis of Archaeological Metalwork using LA-ICP-MS: A Case Study from the South Caucasus Archaeometallurgy Project. Presented at the 76th Annual Meeting of the Society for American Archaeology, March 30 – April 3, 2011
- 2011 **Rauh, R., J. Dudgeon, D. Peterson, **C. Meredith, **N. Holmer, **M. Tromp and B. Hanks. Comparison of Methodological Approaches for Determining Modes of Trace Metal Uptake in Archaeological Skeletal Remains. Presented at the 76th Annual Meeting of the Society for American Archaeology, March 30 – April 3, 2011
- 2010 Dudgeon, J. V., **A. S. Commendador and **M. Tromp. Trace elements, residues and DNA microsatellite data in archaeological mobility studies: Evaluating demographic barriers to panmixia in Rapa Nui (Easter Island). Presented at the 109th Annual Meeting of the American Anthropological Association, November 17 – 21, 2010.
- 2009 Dudgeon, J. V. and **M. Tromp. Evidence for time, space and subsistence strategy recovered from dental chemistry and dental residues in Rapa Nui. Presented at the 25th Annual Meeting of the Society for Hawaiian Archaeology, Honolulu, October 23 – 25, 2009.
- 2008 McCurry, M. and J. V. Dudgeon. Compositional Zonation of the Arico Ignimbrite, Tenerife, Spain: Implications for Depositional Processes. Presented at the American Geophysical Union Fall Meeting, San Francisco, December 15 – 19, 2008.
- 2008 The Application of Laser Ablation ICP-MS as a Method to Identify Historic Burial Dental Stains. Presented at the at the 75th Meeting of the Society for American Archaeology, Vancouver, B.C., Canada, March 26 – 30, 2008
- 2008 Phylogenetic analysis of prehistoric population structure: New insights from old genomic DNA. Presented at the at the 75th Meeting of the Society for American Archaeology, Vancouver, B.C., Canada, March 26 – 30, 2008
- 2008 Heavy Metal Concentrations in the "Baby Teeth" of Children with Autism Spectrum Disorders. Presented at the 2008 International Meeting for Autism Research, London, England. (with **M. M. Abdullah, **A. R. Ly, W. A. Goldberg, **A. Clarke-Stewart, **T. Chan, **E. Kent, **C. Mull, K. Osann, M. A. Spence, J. E. Ericson)

Technical Reports and Special Publications

- 2011 Analysis and report on round robin LA-ICP-MS on modern and historic glass samples: validation and inter-laboratory comparability study, Field Museum, Chicago, Illinois. Prepared by J. V. Dudgeon and M. Tromp, July 2011.
- 2011 LA-ICP-MS Analysis of Human and Animal Archaeological Skeletal Material from the Kamennyi-Ambar 5 Cemetery, Karagaily-Ayat River Valley, southern Urals, Russia. Prepared by J. V. Dudgeon and D. L. Peterson, May 2011.
- 2011 Enhanced Discrimination of Source/Subsource Variation for Provenancing Archaeological Obsidians in Easter Island (Rapa Nui) using Laser Ablation ICP-MS. Prepared by J. V. Dudgeon, January 2011.
- 2010 Report on lead and other heavy metals recovered by sampling swabs associated with historic firing range activities, Reed Gymnasium, Idaho State University. Prepared by J. V. Dudgeon, September 2010.
- 2010 LA-ICP-MS Analysis of fish vertebrae recovered from archaeological excavations along the Columbia River, Washington/Oregon border. Prepared by J. V. Dudgeon, September 2010.
- 2010 Report to the Nampa, Idaho Municipal Police Department: Identification of forensic glass residues recovered from burglary suspect, Case Number XX-XXXX. Prepared by J. V. Dudgeon, May 2010.
- 2009 Deciphering the Occupational and Diagenetic Metal Uptake in Bronze-Age Human Skeletal Remains from the Kamennyi Ambar V cemetery in western Siberia. Prepared by J. V. Dudgeon and D. L. Peterson, September 2009.
- 2006 LA-ICP-MS Analysis of Ceramics and Ceramic Raw Materials from the Gila River Indian Community, Arizona. Prepared by H. Neff and J. V. Dudgeon, August 2006.
- 2006 ICP-MS Analysis of Bioavailable and Toxic Metals of the Feathers and Blood of the Costa Rican Sandpiper (*Calidris mauri*). Prepared by J. V. Dudgeon and C. Mull, August 2006.
- 2006 Energy Dispersive X-ray Microanalysis and Elemental Mapping of Chablekal Fine Gray Ware Ceramics. Prepared by J. V. Dudgeon, July 2006.
- 2006 Micro-Chemical Elemental Analysis Core Facility: progress report. Presented at the 18th Annual CSUPERB Conference, San Jose, California. (with A. Z. Mason)

Awards, Grants and Fellowships

- In prep.* NSF Senior Archaeology Research Grant: Demography and Subsistence in Prehistoric and Protohistoric Rapanui (Easter Islanders), and their Impacts on Closed Ecosystems (New Submission (December 2011) —\$192,200; PI with B. Finney, A. Commendador, E. G. Kouneski)
- In prep.* NSF Archaeology/Geography Research Grant: Phase I of the Lori Project: Remote Sensing, Test Excavation, and GIS Development for the Investigation of Prehistoric Social Networks on the Armenian Plateau (Pending Resubmission of 2010 proposal (December 2011) —\$160,329; Co-PI with D. L. Peterson, S. Hinman)
- In prep.* NSF Archaeometry Grant: Technique Development for Micro-Scale Elemental Analysis of Archaeomaterials: Composition, Biogenic Incorporation and Post-Depositional Alteration (Pending Resubmission of 2010 proposal (December 2011) —\$187,897; PI with D. Greenlee, D. L. Peterson)
- In prep.* NSF Archaeology Research Grant: Collaborative Proposal: Investigating the Subsistence Transition in Post-Lapita Fiji (2500-1500 years BP) (Pending Resubmission of 2010 proposal (December 2011) —\$237,174; PI with J. S. Field, C. Roos)
- Pending National Geographic Society Waitt Grant: Complex Bronze and Iron Age Networks in the South Caucasus: Phase I of the Lori Project (Pending Request—\$21,000; Co-PI with D. Peterson, A. Commendador)
- 2011 NSF MRI Grant: Next-Generation Sequencing for the ISU Molecular Research Core Facility (MRCF) (\$194,365; Co-PI with M. A. Thomas, J. M. Pfau and C. Evilia)
- 2011 Humanities and Social Science Research Council: Mapping Complex Bronze and Iron Age Networks in the South Caucasus (\$8,000)
- 2010 ISU Faculty Enhancement Grant: Building capacity and expanding research activity in anthropological genetics (\$4,980)
- 2009 NSF REU (Research Experience for Undergraduates), Physics: Supervisory role for undergraduate advisee for research and training in inductively-coupled plasma mass spectrometry and x-ray fluorescence technology for bio-archaeological science (\$4500.00; with M. Tromp, advisee)

- 2008 Faculty Research Council Grant: Archaeogenetic Analysis of Prehistoric Easter Islanders: Replication Study in Advance of Publication (\$4,979.29)
- 2008 NSF MRI Grant: Proposal to Purchase a ESEM with CL, STEM, and EDX, at Idaho State University (\$372,230; Co-PI with H. Maschner, J. J. Pak, M. McCurry, R. G. Rodriguez)
- 2007 NSF MRI Grant: Acquisition of Mass Spectrometers and Related Equipment to Create the ISU Interdisciplinary Lab for Elemental and Isotopic Analysis (ILEIA) (\$587,410; Senior Personnel)
- 2006 NSF Archaeometry Grant: Solid-Sample Inorganic Analysis Facilities for Archaeological Research at IIRMES, CSULB (\$154,256; Co-PI with H. Neff, C. P. Lipo)
- 1998 – 2002 Dissertation Fellowship, Research Corporation, University of Hawai'i (\$51,000)

University/Department Service

- 2011— Social and Behavioral Sciences Representative, University Graduate Council, ISU
- 2011— Graduate Program Coordinator, Department of Anthropology, ISU
- 2011— Molecular Advisory Committee, Molecular Research Core Facility (NIH BRIN), ISU
- 2011— Tenure and Promotion Committee, Department of Biological Sciences, ISU
- 2011— Junior Faculty Representative – Chair Search Committee, Department of Anthropology, ISU
- 2010— Faculty Representative, Student Anthropology Society, ISU
- 2010 – 2011 College of Arts and Letters Sabbatical Committee, ISU
- 2008— Webmaster; Mailman listserv, Blogspot and Archaeological Sciences Data Server Coordinator, Department of Anthropology, ISU
- 2008— Governance Board, Center for Archaeology, Materials and Applied Spectroscopy (CAMAS), ISU
- 2004-2007 Advisory Committee, Institute for Integrated Research in Materials, Environments and Society (IIRMES), Cal State University, Long Beach
- 2001-2004 Computer Resources Supervisor, Department of Anthropology, University of Hawai'i
- 2000-2004 Information Technology Committee, University of Hawai'i
- 2000-2004 Anthropology Computing Committee, Department of Anthropology, University of Hawai'i
- 1999-2000 Mission Statement Committee, Department of Anthropology, University of Hawai'i

Curriculum Development

New courses created at ISU

- ANTH 4464/5564: Advanced Analytical Methods in Archaeology. Advanced undergraduate/graduate course in research design, experiment development, completion/ reporting of student archaeological projects. Emphasis on novel/experimental approaches to archaeological problems. (4 credit course).
- ANTH 4499/5599: Material Culture Analysis in Archaeology. Undergraduate/graduate course in theoretical and methodological approaches for studying archaeological material culture. Emphases include ethnoarchaeological and experimental approaches for understanding prehistoric technology. (3 credit course with 1 credit lab).
- ANTH 4430/5530: Topics in Human Evolution. Undergraduate/graduate three-course rotation in theory and conceptual issues on the genesis and maintenance of human variation. Course rotation: Paleoanthropology; Anthropological Genetics and Modern Human Variation; Paleodemography and Human Life History Theory. (3 credit course; Repeatable).
- ANTH 2237: Archaeology of Oceania. Introduction to Pacific prehistory with emphasis on geography, island biogeography and human adaptation on islands. Cultural continuity and cultural revitalization movements are also discussed. (3 credit course).
- ANTH 2232: Sex, Culture and Human Evolution. Sociocultural anthropological study of sex and gender variation in a cross-cultural perspective, with emphasis on evolution and maintenance of distinctive features of human sexuality. (3 credit course).

Courses I currently teach/prepared to teach

- ANTH 2203: Introduction to Archaeology
- ANTH 2232: Sex, Culture and Human Evolution
- ANTH 2237: Archaeology of Oceania
- ANTH 4499/5599: Material Culture Analysis in Archaeology

- ANTH 4463/5563: [Quantitative Methods in Archaeology](#)
ANTH 4464/5564: [Advanced Analytical Methods in Archaeology](#)
ANTH 4491/5591: [Archaeology Laboratory Analysis: Geoarchaeology](#)
ANTH 4432: [Human Osteology](#)
ANTH 6615: [Graduate Seminar in Biological Anthropology](#)

Archaeological Sciences Student Research Symposium.

Since 2009, I have sponsored and presided over the ISU Archaeological Sciences Student Research Symposium, which offers a public venue for students to present the results of their research projects in the [Advanced Analytical Methods in Archaeology](#) course. The symposium is attended by students, faculty and administration from many diverse disciplines across the campus. Students use critical feedback from this symposium to prepare professional presentations for national meetings, such as the Society for American Archaeology and the American Association of Physical Anthropologists and for journal publication.

Professional Activities

- 2011 Organizer for 8th International Conference on Easter Island and the Pacific symposium: *Recent Methodological Advances in Pacific Bioarchaeology*, Santa Rosa, California, July 2012
2010— Reviewer: *Journal of Archaeological Science*, *Journal of Forensic Nursing*
2010 Organizer (with D. L. Peterson) for SAA symposium: *Social Archaeometry: Promise and Prospects in the Anthropological Sciences*, 75th Meeting of the Society for American Archaeology, St. Louis, Missouri, April 14 – 18, 2010
2009— Faculty Mentor: NSF-REU (Research Experience for Undergraduates) Program, Archaeology and Applied Plasma Physics at Idaho State University
2009 Special Presentation, College of Arts and Sciences Dean's Advisory Council: *The Future and Prospects for Anthropological Science at ISU*, September 25, 2009
2002 Organizer for SAA symposium: *Archaeological Research in the 'Navel of the World': Recent Research in Rapa Nui*, 67th Meeting of the Society for American Archaeology, Denver, Colorado, March 17 – 21, 2002

Student Committees

- 2008-2011 Thesis Chair, M.S. Candidate Monica Tromp (Anthropology); Defending Spring 2012
2009-2011 Thesis Chair, M.S. Candidate Whitney Rauh (Anthropology); Defending Spring 2012
2010-2011 Thesis Chair, M.S. Candidate Clayton Meredith (Anthropology); Defending Spring 2012
2009-2011 Committee Member, Ph.D. Candidate Levan Tkavadze (Physics); Graduated Fall 2011
2009-2010 Committee Member, M.S. Candidate Sandeep Vangari (Civil Engineering); Graduated Fall 2010
2008-2010 Committee Member, M.S. Candidate Katherine Potter (Geosciences); Graduated Spring 2010
2009-2010 Committee Member, M.S. Candidate Martin Sorenson (Civil Engineering); Graduated Spring 2010

Academic References

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Dr. Bryan Hanks, Associate Professor of Anthropology
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Dr. Rebecca Cann, Professor of Cell and Molecular Biology
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