

Andrew C. Hume

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ACADEMIC EXPERIENCE

Stanford University

PhD Candidate, Environment and Resources

Palo Alto, Ca.
September 2017 – Present

- Richard L. Kaufmann and Ellen Jewett Fellow
- Graduate Student Advisory Committee
- 2017 Design for Extreme Affordability Alum

University of Virginia

Master of Science in Environmental Science

Charlottesville, Va.
May 2008

- Moore Graduate Fellowship, Arts and Science Graduate Fellowship, Governor's Fellowship, Graduate Student Association representative, Lawn & Range graduate resident.
- Thesis: "*Dissolved oxygen fluxes and ecosystem metabolism in an eelgrass (Zostera marina) meadow measured with the novel eddy correlation technique*"

University of Virginia

Bachelor of Arts in Environmental Science with Minor in Biology

Charlottesville, Va.
May 2005

- Dean's List, Phi Eta Sigma Freshman Honor Society member

PROFESSIONAL EXPERIENCE

Independent Consultant

International Resource Management Specialist

Washington, D.C.
11/2012 – Present

- Global Environment Facility (GEF) project design, preparation strategy, and drafting/editing proposal documents, evaluations, policies and strategies, and related materials for environmental development projects.
- Specific technical expertise with coastal and marine resource management issues and approaches, including fisheries and biodiversity conservation, marine spatial planning, integrated coastal zone management, transboundary cooperation, small island developing States
- Previous clients include Food and Agriculture Organization of the United Nations (FAO), United Nations Development Programme (UNDP), and United Nations Environment Programme (UNEP), United Nations Education, Science, and Cultural Organization (UNESCO), and UNEP World Conservation Monitoring Center (WCMC)

World Wildlife Fund

Director, WWF GEF Agency

Washington, D.C.
03/2013 – 09/2017

- Oversaw establishment of over US100 million Global Environment Facility (GEF) project portfolio as new GEF Project Agency; Established processes and policies and maintained oversight to ensure compliance with WWF and GEF standards; Managed team of ten full time and part time staff and consultants
- Led development and implementation of GEF projects in coordination with senior government and WWF staff, technical project personnel, consultants and other key stakeholders
- Represented WWF on task forces, steering committees, and other strategic planning groups, as well as meetings and conferences for influencing international environmental policy and finance;
- Provided strategic advice and planning for WWF-network wide oceans, marine, and coastal programming and technical design on GEF projects
- Continue to maintain an ad hoc support role as WWF GEF Senior Advisor (since September 2017)

World Bank - Global Environment Facility (GEF) Secretariat

International Waters Specialist

Washington, D.C.

11/2010 – 11/2012

- Junior Professional Associate Program 2010 Cohort member
- Reviewed proposals from and liaised with governments, United Nations, and World Bank partners to facilitate development of project proposals for scientific rigor, intervention strategy, and compliance with GEF policies and global environmental conventions
- Participated in World Bank project evaluation (Implementation Completion Report) on fisheries and marine protected areas in Senegal
- Coordinated and member of GEF delegation for UN Conference on Sustainable Development (Rio+20). Represented GEF at UN Division of Ocean Affairs and Law of the Sea meetings. Represented GEF at project steering committee meetings for southwest Indian Ocean fisheries and Large Marine Ecosystem conservation in Mauritius
- Conducted statistical analysis on GEF project portfolio and implementation results for technical reports and publications. Created project database for GEF-funded International Waters project portfolio. Served as author and editor for four GEF Secretariat communications publications

Forest Trends Association

Intern, Marine Ecosystem Services Program

Washington, D.C.

09/2009 – 11/2010

- Analyzed state of marine payment for ecosystem services and valuation of blue carbon policy, economic development, and conservation programs
- Supported development of three technical publications and two white papers on innovative marine conservation financing, including carbon sequestration markets, economic evaluation of species and habitats, and economic impact of marine protected areas on local economies

United States National Oceanic and Atmospheric Administration

Intern, NOAA Office of International Affairs

Washington, D.C.

09/2009 – 12/2009

- Assisted preparation of position papers and policy documents, as well as drafting and summarizing background materials, reports, and recommendations for United States marine and atmospheric policy
- Helped staff to negotiate with U.S. federal agencies, foreign governments, and international organizations related to ocean and marine, health, scientific, and technological aspects of U.S. policy

Scottish Association for Marine Science

Research Assistant

Oban, Scotland

08/2008 – 09/2009

- Led field research and laboratory experiments testing novel environmental monitoring technology in marine environments to monitor carbon sequestration and other biogeochemical processes
- Deployed and maintained environmental monitoring instrumentation and conducted statistical and numerical analysis and modeled chemical, hydrodynamic, and ecological processes
- Managed three staff and led coordination/logistics for field research in Scotland and Greenland

SKILLS

- **Computer Software:** R, MATLAB, QGIS, Adobe Photoshop and Illustrator, Microsoft Office Suite
- **Languages:** English (native), Spanish (beginner-intermediate)
- **Citizenship:** United States (birth), United Kingdom

PUBLICATIONS

- Glud RN, Berg P, Stahl H, **Hume A**, Larsen M, Eyre BD, Cook P. 2016. *Benthic carbon mineralization and nutrient turn-over in a Scottish sea loch: An integrative in situ study*. Aquatic Geochemistry.
- Reidenbach M, Berg P, **Hume A**, Hansen J, Whitman E. 2013. *Hydrodynamics of intertidal oyster reefs: the influence of boundary layer flow processes on sediment and oxygen exchange*. Limnology and Oceanography: Fluid and Environments. 3: 225-239

- Duda A, **Hume A**. 2013. *A New Imperative to Harness Sound Science in the GEF International Waters Focal Area*. Environmental Development. 7: 102 – 108.
- Holtappels M, Glud RN, Donis D, Liu B, **Hume A**, Wenzhofer F, Kuypers M. 2013. *Effects of transient bottom water currents and oxygen concentrations on benthic exchange rates as assessed by eddy correlation measurements*. Journal of Geophysical Research: Oceans. 118
- **Hume A** and Duda A. 2012. *Global Environment Facility Strategy for Assessing and Managing Large Marine Ecosystems During Climate Change* in Frontline Observations on Climate Change and Sustainability of Large Marine Ecosystems. Ed. Sherman K and McGovern G. UNDP.
- Inoue T, Glud RN, Stahl H and **Hume A**. 2011. *Comparison of three different methods for assessing in situ friction velocity: A case study from Loch Etive, Scotland*. Limnology and Oceanography: Methods 9: 275 – 287.
- **Hume A**, Berg P, McGlathery K. 2011. *Oxygen exchange dynamics in seagrass meadows measured with the eddy correlation technique*. Limnology and Oceanography. 56(1): 86-96.
- Glud RN, Berg P, **Hume A**, Batty P, Blicher ME, Lennert K, Rysgaard S. 2010. *Benthic O₂ exchange across hard-bottom substrates quantified by eddy correlation in a sub-Arctic fjord*. Marine Ecology Progress Series. 427: 1-12.
- Lau W, Agardy T, **Hume A**. 2010. *Marine Payment for Ecosystem Services: Getting Started: A Primer*. Marine Ecosystem Services Program, Forest Trends. Washington, D.C.
- Berg P, Glud RN, **Hume A**, Stahl H, Oguri K, Meyer V, Kitazato H. 2009. *Eddy correlation measurements of oxygen uptake in deep ocean sediments*. Limnology and Oceanography: Methods. 7: 576 – 584.
- Liao Q, Bootsma H, Xiao J, Klump V, **Hume A**, Long M, Berg P. 2009. *Development of an in situ underwater particle image velocimetry (UWPIV) system*. Limnology and Oceanography: Methods. 7: 169 – 184.