

ALEX O. DEHGAN

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EDUCATION

Ph.D, M.Sc. The University of Chicago, Committee on Evolutionary Biology, Chicago, IL; March, 2003. Thesis: *The Behavior of Extinction: Predicting the Incidence and Local Extinction of Lemurs in Fragmented Habitats of Southeastern Madagascar*. Advisor: Dr. Bruce Patterson. Post-doctoral epidemiology coursework at Johns Hopkins Bloomberg School of Public Health.

J.D. University of California, Hastings College of the Law, San Francisco, CA; May, 1994. *U.C. Hastings Int'l & Comparative Law Review*. Executive Editor, 1994. Staff, 1992-1993. Member, Philip C. Jessup Int'l Law Moot Court Team. Leyden University, The Netherlands, Spring, 1994. Studied int'l, comparative, & European Law.

B.Sc. Duke University, Durham, NC; May, 1991.
Majors: Zoology & Political Science.
Awards: Dean's List 1990-1991, Graduation with Distinction.
Honors Thesis: *Redefining National Security in Terms of Environmental Change*.

PROFESSIONAL EXPERIENCE

INTERNATIONAL DEVELOPMENT & CONSERVATION

Chief Executive Officer & Founder, Conservation X Labs, Wash., DC. June 2015- present. Founded Conservation X Labs (both nonprofit research group & for-profit B Corp). Conservation X Labs harnesses emerging technology, open innovation, and entrepreneurship to create transformative solutions that address the underlying drivers of extinction and bring them to scale.

- Raised more than US\$5.3 million in revenues and non-dilutive research grants in first three years of operations for creating new technologies for addressing conservation challenges.
- Created & ran the first Grand Challenge for Conservation, the Blue Economy Challenge, which sought replacements for wild fish in aquaculture feeds, reimaged aquaculture design, and developed new products from the oceans. Developing new challenges around rethinking cooling (Global Cooling Prize), water & conservation, and identifying and addressing fungal pathogens.
- Developed the world's first conservation technology accelerator, with the first cohort based on fish meal replacement and new ocean products.
- Engineered new labs at the intersections of molecular biology & nanoscale engineering. Designing and engineering the world's first portable DNA barcode reader designed for the developing world in partnership with the University of Washington.
- Creating the first digital makers space – a mass collaboration platform for engineering new technologies for conservation and building a new community of engineers, scientists, makers, designers, and conservationists.

Inaugural Rubenstein Fellow, Office of the Provost, Duke University, March 2014 – June 2015;
Chanler Innovator in Residence, Innovation & Entrepreneurship Initiative, March 2016-present.

- Served as the first David Rubenstein Fellow in the Office of the Provost to help the university address global grand challenges.
- Co-developed cross-university initiatives around innovation for conservation and development, including standing up the cross disciplinary Conservation Innovation Initiative.

- Designed and taught a university-wide course on innovation & design for global grand challenges (Spring 2015) and developed a MOOC on the same theme with Coursera (Fall 2017). Taught Hacking for Conservation & Development, based on harnessing innovation, lean launchpad & design thinking for the SDGs (Spring 2018). Working with AshokaU to create problem oriented curricula for conservation for universities based on innovation, technology, and entrepreneurship.
- Actively partnering with the Innovation & Entrepreneurship Initiative at Duke University and with the Nicholas School of the Environment on innovation and design for conservation through business plan competitions, hackathons, university-wide fora. Co-created Madagascar 2030, the university-wide Winter Forum Program around harnessing innovation & entrepreneurship for Madagascar's conservation and development challenges.

Chief Scientist and Director, Office of Science and Technology, U.S. Agency for International Development, Washington, DC. March 2010 – February 2014.

- Directed efforts to restore science and technology (S&T) to its rightful place within foreign assistance as the first dedicated chief scientist (with rank of an Assistant Administrator) for the Agency in two decades. Led the Agency's reform agenda (USAID Forward) around S&T. Conceptualized, created, and helped launch the US Global Development Lab, a DARPA for Development for advancing science, technology, innovation, and partnerships.
- Designed, launched, funded, staffed & leading the Agency's first independent Office of Science & Technology in two decades, from scratch, building a team of 80 people and \$100 million budget in 3.5 years. Leveraged over \$428 million in non-USG funding for S&T initiatives.
- Helped design and build the Agency's Bureau of Policy, Planning, and Learning.
- Conceptualized, launched, and oversaw the Agency's Geospatial Center and efforts to rebuild the use of data for development. Created the position of the Agency's first Geographer.
- Created and launched the Agency's Global Challenges for Development initiative to address the biggest emerging global challenges in maternal and child health, energy, agriculture, water, education, and corruption. Launched for the Agency's efforts to use prizes and open innovation, including the Atrocity Prevention Challenge launched by the President.
- Harnessed the power of federal science agencies for development, leveraging millions in federal research funding and expertise to apply to international development challenges. Created partnerships with NSF (PEER Science), NIH (PEER Health), NASA, and USGS.
- Led efforts to rebuild a scientific culture at USAID, including bringing in technical professionals, creating a senior technical career track, drafting and implementing the Agency's scientific integrity policy, providing access to scientific expertise, publications, and conferences, and providing access to new technologies.
- Vastly expanded the AAAS Science Fellowship Program at USAID to 65 fellows in 2013, including 20 fellows overseas, from an entering class of 2 in 2007. This is the most AAAS fellows for any Federal Agency in the 40-year history of the AAAS Executive Branch Science Policy Fellowship. Worked with AAAS to create a new Data Fellowship for the federal government.
- Created the Higher Education Solutions Network for the Agency, creating a series of Development Labs, which sought to create new models for development based on radically advances in science and technology, social entrepreneurship and open innovation, and providing over \$125 million in leverage. Program received 472 applications from 49 states & 33 countries.
- Conceptualized and led the Agency's sole event (a science fair for development) at the 2010 UN General Assembly Meetings. In July 2010, launched a major USAID conference on Transforming Development through Science, Technology, and Innovation launching S&T strategy.
- Assisted the Iraqi government to create an Iraqi National Science Foundation, and science policy infrastructure, including the positions of a Science Adviser to the PM, a Parliament Science Committee, and an office of Science Policy attached to the PM's office.

Inaugural Afghanistan Country Director, Wildlife Conservation Society, Kabul, Afghanistan. June 2006 – Oct. 2007.

- Implemented a \$6.9 million USAID cooperative agreement for biodiversity conservation in Afghanistan, including conducted the first comprehensive biological surveys in 30 years, creating a system of protected areas (including Afghanistan's first & second national parks), helped end illegal wildlife trade on US military bases, developed legislation and policies for biodiversity conservation, implemented a comprehensive community conservation program, and extensively built scientific capacity in Afghanistan.
- Launched, staffed, and managed an office of 50 Afghan and international scientists and staff, and more than 25 affiliated Afghan scientists and researchers. Raised an additional \$4.9 million within first year of operation.
- Worked cooperatively with the Afghan government, academic organizations, USAID, development banks, NGO's, and UN Agencies to push for biodiversity conservation in Afghanistan.
- Raised \$4.3 million by beginning of second project year beyond initial 6.9 million dollar funding from USAID.

Project Director & Chief Scientist, Ranomafana Fragments Project, Madagascar. Oct. 1998-June 2003.

- Studied the role that behavior and its evolutionary constraints play as proximate and ultimate causes behind extinction-driven biogeographic patterns in lemurs for doctoral dissertation.
- Built and led an international team of 22 researchers & field assistants in remote tropical rainforest field sites over 3 years.
- Raised and oversaw 1.1 million dollars through 24 separate grants to fund research.

US FOREIGN POLICY & SCIENCE DIPLOMACY EXPERIENCE

Policy Adviser and Senior Scientist, Office of the Science Advisor to the Secretary of State and to the Administrator of the U.S. Agency for International Development, Wash., DC. Jan. 2008 – Feb. 2010.

- Developed strategy for using science & environmental diplomacy in the Near East, Levant, and North Africa, including leading the Global Engagement S&T track which implemented the President's "New Beginnings" speech in Cairo on June 4th, 2009.
- Worked with USAID leadership to improve USG foreign assistance by strengthening how S&T is used within our development policies. Developed USAID & State transition papers on improving the role of science in foreign assistance, science diplomacy & development and climate change.

Senior Adviser to Amb. Dennis Ross, Office of the Special Adviser to the Secretary of State for the Gulf and South West Asia, U.S. Department of State, Washington, DC. March 2009 – August 2009.

- Advised on Iran policy with respect to Iran internal political dynamics, the use of science diplomacy to engage Iran, Iran external dynamics with Afghanistan & Pakistan, and Iran environmental security.
- Liaison to the President's Special Rep. for Afghanistan/Pakistan, Amb. Richard C. Holbrooke.

Member, Policy Planning Staff, Office of the Secretary of State, U.S. Department of State, Wash. D.C. Feb. 2006 – June 2006.

- Developed a longer term, strategic view of global trends, and framing recommendations for the Secretary of State to advance U.S. interests and American values.
- Portfolio included the Syria-Lebanon Conflict, Israel-Palestine Issue, & Western Sahara, among others. Applied scientific expertise to issues in foreign policy.

Special Advisor to the Coalition Provision Authority, Coalition Provisional Authority, Baghdad, Iraq.
Jan. 2004-June 2004.

- Redirected WMD scientists in Iraq to civilian research and activities in support of reconstruction efforts and implemented international scientific and environmental initiatives.
- Created and served as interim director of the Iraq International Center for Science & Industry.
- Increased budget from 2 million to 62 million dollars.
- Served as the U.S. negotiator with the Iraqi Governing Council on accession to the Additional Protocol of the Nonproliferation Treaty and the Chemical Weapons Convention.
- Work in Iraq became the basis of a NYT best seller – *Imperial Life in the Emerald City* and the movie *Green Zone*.

American Association for the Advancement of Science Diplomacy Fellow, Bureau of Near Eastern Affairs, U.S. Department of State, Wash. D.C. Sept. 2003-Sept. 2005.

- Created and directed the Iraqi Virtual Science Library initiative, including bringing together multiple offices within the DOD, DOS, USAID and Dept. of Agriculture, as well as NGOs, private companies, and foreign governments to create and fund an on-line science library for Iraq.
- Coordinated the briefing of Secretary of State Condeleeza Rice and the Deputy Secretary Robert Zoellick on Near Eastern and North African issues for their confirmation hearings and served as the State Department's coordinator on briefing issues for Secretary Rice's first trip to the Middle East.
- Coordinated the United Nations General Assembly meetings for the Bureau of Near Eastern Affairs.
- Reviewed the Defense Threat Reduction Agency's Collaborative Biological Research program.

INTERNATIONAL & COMPARATIVE LAW

Law Clerk, Hon. Dominick L. DiCarlo, Chief Judge, U.S. Court of International Trade, New York, N.Y.
Sept. 1994-Aug. 1996.

- Worked on multiple high-profile cases, including five cases reviewed & upheld by the U.S. Supreme Court, seminal cases concerning trade and the environment, a novel constitutional interpretation of the Export Clause (*U.S. Shoe v. United States*), and the definition of a computer for U.S. law.
- Drafted opinions for the Chief Judge of the U.S.C.I.T. in trade and customs cases.
- Prepared bench memoranda when the Chief Judge sat by designation in U.S. Fed. Court for SDNY.

Legal Advisor, Ecological Committee of the Supreme Soviet & Ministry of Ecology, Russian Federation, Moscow, Russia. June 1992-Aug. 1992; July 1993-Sept. 1993.

- Reviewed and drafted amendments for "On the Protection of the Natural Environment," the primary framework for environmental protection in the Russian Federation.
- Supported the development of Russian environmental litigation teams.
- Assisted in establishing the proposed Black Sea Biological Reserve.

SELECTED AWARDS & FELLOWSHIPS

Awards & Honors

40@40. 2013. Selected by AAAS as one of 40 AAAS Fellows out of 2,600 alumni in celebration of AAAS' 40th Anniversary as a former fellow who made significant contributions during their fellowship, were uncommon ambassadors for the role of science and technology to support policy, demonstrated exemplary dedication to applying science to serve society, and were creative, innovative, and collaborative problem solvers addressing challenges at local, state, national or international levels.

Multiple Awards to the USAID Office of Science & Technology. 2010-2013. Under my leadership, the Office of Science and Technology Programs and teams have won the World Technology Award for Policy, Harvard's Ash Center Top 25 Innovations in Government, Fierce 15 Champions in Innovation and Creativity, and were Finalists in the Service to America Award. Its innovations and innovators have won the Lemelson MIT Award, CNN Hero of the Year Award (2013), and were among the WHO's Top 10 innovations for 2012.

World Technology Award (Policy). 2011. World Technology Awards initiative held in association with TIME magazine, Fortune magazine, CNN, Technology Review, Science magazine, and others.

Superior Honor Award. 2011. Awarded by the United States Agency for International Development "in recognition of sustained dedication of and exceptional service in pursuit of USAID's goals and objectives".

Meritorious Honor Award (group). 2006. Awarded by the United States Department of State to the Office of Regional Affairs, Bureau of Near Eastern Affairs.

Science Icon. 2005. Selected by *Seed Magazine* as one of 15 people who have shaped the global conversation about science in 2005.

Superior Honor Award. 2005. Awarded by the United States Department of State for "vision, innovation, leadership, and dogged determination in creating the Iraq Virtual Science Library."

Letter of Commendation. 2005. Awarded by the United States Department of Defense for "exceptional planning, creating thinking, and uncommon ability to work with and across DoS and DoD with positive outcome".

Certificate of Appreciation. 2004. Awarded by the United States Department of Defense for "extraordinary contributions to the Coalition Provisional Authority in support of Operation Iraqi Freedom."

Fellowships

William Rainey Harper Fellowship. 2001-2002. Biological Sciences Division recipient. One of the University of Chicago's highest honors. Given in recognition of a record of "significant achievement" and "professional promise" with generally only one student selected from each university division (Biological Sciences, Physical Sciences, Social Sciences, and Humanities).

Fulbright Scholar to Madagascar. 1999-2000. One of two scholarships awarded for Madagascar.

National Science Foundation Graduate Fellowship. 1997-2000. Awarded to students with potential to make contributions to science.

Searle Fellowship. 1996-1997. Fellows selected by University of Chicago on the basis of academic achievement and significant intellectual promise.

International House Residential Fellowship. 1997-2001. First American to receive this scholarship.

SELECTED RESEARCH GRANTS

Schmidt Foundation. 2018-2020. For support of CXL's conservation technology work.

Moore Inventor Award. 2018-2020. Awarded to the DNA Barcode Scanner Team. First NGO to win the award.

Moore Foundation Award. 2017-2019. For the support of a water & conservation Grand Challenge.

Moore Foundation Award. 2017-2018. In support of the Digital Makerspace. Previous Moore Foundation grants in support of Make for the Planet.

Schmidt Futures Award. 2017-18. Selected by Schmidt Sciences Foundation to support Conservation X Labs Digital Makerspace.

National Fish and Wildlife Foundation Award. 2016-2018. Grant from Department of Justice to support the development of a portable DNA device designed for field conditions.

Schmidt Marine Technology Fund. 2016, 2017. Support for the DNA Barcode Reader.

USAID Cooperative Agreement. 2007. Raised \$4.3 Million for the Afghanistan Biodiversity Conservation Program.

David and Lucile Packard Interdisciplinary Science Grant. 2002. Provides a three year post-doctoral fellowship and significant research funds. Co-written with Dr. Patricia Wright and Dr. Tim Keitt of SUNY at Stony Brook for continuation of fragmentation studies in Madagascar.

National Science Foundation Dissertation Enhancement Award. 2000-2002. Awarded by the National Science Foundation's Division of International Programs jointly with Environmental Biology to support the Ranomafana Fragments Project.

British Ecological Society. 2002. Support to attend the 2002 Society for Conservation Biology Meetings.

Wildlife Conservation Society Research Fellowship Program. 1999-2000. Awarded by the Wildlife Conservation Society.

Brookfield Zoo Conservation and Research Award. 2000. Awarded by Brookfield Zoo to fund conservation research likely to make a significant contribution to the discovery of knowledge about the Earth's biological resources and human impact on the environment.

Cleveland Metroparks Zoo Conservation and Research Grant. 2000.

Madagascar Fauna Group. 1999. Awarded by the Madagascar Fauna Group, an international consortium of zoological institutions concerned with conservation of all classes of Malagasy fauna.

Margot Marsh Biodiversity Foundation. 1999. Administered by Conservation International in support of the conservation of endangered nonhuman primates and their natural habitats.

The Explorers Club Exploration Fund. 1999. Supports exploration and field research.

Primate Society of Great Britain Conservation Grant. 1999. Awarded by the PGSB Conservation Working Group for support of primate conservation and education.

Pittsburgh Zoo Conservation Fund. 1999.

American Society of Primatologists. 1999. Awarded by the ASP Conservation Committee for conservation research or related projects with primates.

Primate Conservation, Inc. 1999, 2001 [two-time recipient]. Awarded by Primate Conservation, Inc. to fund field research that supports conservation programs for wild populations of primates.

Tinker Field Research Grant. 1998. Awarded by the Center for Latin American Studies, University of Chicago, to support field research in Central America.

Hinds Fund Awards. 1997, 1998, 2001, 2002 [four-time recipient]. Awards were used for research in Brazil, Costa Rica, and Madagascar.

PUBLICATIONS

Books

Dehgan, Alex. January 2019. *The Snow Leopard Startup*. Hachette Publishing (*Public Affairs*), available on Amazon <https://www.amazon.com/Snow-Leopard-Project-Adventures-Conservation-ebook/dp/B0785M9QO6>

Peer reviewed

Dehgan, Alex. 2019. “The Behavior of Extinction: Predicting the Incidence and Local Extinction of Lemurs in Fragmented Habitats of Southeastern Madagascar”. (*In prep*).

Barbara Martinez, **Alex Dehgan**, Brad Zamft, David Baisch, Colin McCormick, Anthony J. Giordano, Rebecca Aicher, Shah Selbe, Cassie Hoffman. 2018. “Advancing Federal capacities for the early detection of and rapid response to invasive species through technology innovation”, *Journal of Biological Invasions*. *In Press*. Available at https://www.doi.gov/sites/doi.gov/files/uploads/federal_capacities_for_edrr_through_technology_innovation_prepub_8.7.17.pdf

Dehgan, Alex and Cassie Hoffman. 2017. “Addressing the Problem of Scale in Conservation.” *Innovations: Technology, Governance, Globalization* (July 2017).

Stuart L. Pimm, Sky Alibhai, Richard Bergl, **Alex Dehgan**, Chandra Giri, Zoë Jewell, Lucas Joppa, Roland Kays, Scott Loarie. 2015. “Emerging Technologies to Conserve Biodiversity,” *Trends in Ecology and Evolution*, 30(11):633-708 (Nov. 2015).

Mascaro, Joseph, Gregory Asner, Stuart Davies, **Alex Dehgan**, and Sassan Saatchi. 2014. “These are the Days of Lasers in the Jungle”, *Carbon Balance and Management* 9:7.

Smallwood, Peter, Chris Shank, **Alex Dehgan**, David Lawson, and Peter Zahler. 2011. “Wildlife Conservation in Afghanistan.” *Bioscience* 61(7):506-511 (July 2011).

Stevens, Kara, **Alex Dehgan**, Maria Karlstetter, Farid Rawan, Muhammad Ismail Tawhid, Stephane Ostrowski, Jan Mohammad Ali, and Rita Ali. 2011. “Large Mammals Surviving Conflict in the Eastern Forests of Afghanistan”, *Oryx* 45(2):265-271.

Klopfers, Peter and Joan Polemics* (* J. Polemics is a pseudonym for **Alex Dehgan**, Mark Erdman et al.). 1988. "The Development of Aggression in Childhood: A Review." 105 *Journal of the Elisha Mitchell Society* 115.

Non-peer Reviewed Articles and Book Chapters

Dehgan, Alex and Aleem Walji. 2013. “Prizes and Challenges Matter for Development,” *Stanford Social Innovation Review*. (October 14, 213).

Dehgan, Alex. 2012. “Creating the New Development Ecosystem”. *Science* 336(6087):1397-8 (June 15).

Ostrowski S., P. Zahler, **A. Dehgan**, K. Stevens, M. Karlstetter, and P. Smallwood. 2009. “The Asiatic Black Bear Still Survives in Nuristan, Afghanistan,” *International Bear News*. 18(4): 14-15 (International Assoc. for Bear Research and Management (IBA) and IUCN/SSC Bear Specialist Group).

Dehgan, Alex, Peter Zahler, Jim Wingard, and Lisa Yook. 2007. “Conservation, Wildlife, and Security: Afghanistan Case Study,” Protected Areas and Human Livelihoods, Working Paper 32 (WCS).

Ganzhorn Jorg U., Steven M. Goodman, and **Alex Dehgan**. 2004. Effects of Forest Fragmentation on Small Mammals and Lemurs. *Natural History of Madagascar* (Steve M. Goodman and J. Benstead, eds. University of Chicago Press, Chicago).

Foreign policy and legal articles

Dehgan, Alex and Jean Palmer-Maloney. 2014. “Water Security and Scarcity: Destabilization in Western Afghanistan due to Interstate Water Conflicts”, in *Water and Post-Conflict Peacebuilding* (eds. Erika

Weinthal, Jessica Troell, and Mikiyasu Nakayama, *Earthscan Books, London*). Peer Reviewed.

Dehgan, Alex. 2012. "[USAID Will Continue Its Push For Science](#)", *SciDev.Net* (20 Dec. 2012).

Dehgan, Alex & E. William Colglazier. 2012. "Development Science and Science Diplomacy", *Science and Diplomacy* (Dec. 7, 2012).

Dehgan, Alex & Kaitlin Christensen. 2011. Meeting the world's health challenges, boosting our economy," *The Hill*. 03/08/11

Dehgan, Alex. 1998. "Determining Lusaka's Potential." 1 *Journal of Int'l Wildlife Law and Policy* 143.

Dehgan, Alex. 1997-2000. Corresponding Editor. *Journal of International Wildlife Law & Policy*.

Dehgan, Alex. 1994. "Federalism, Regionalism, & Sovereignty in the Russian Federation." 5 *Constitutional L.J.* 1.

Dehgan, Alex and Robin Myren. 1993. Book Review of *Foreign Investment Legislation in the Republics of the Former Soviet Union*, *Review of Central and East European Law* 20(6):757-760.

Dehgan, Alex. 1993. "A Criticism of the New Mechanisms for Conservation in the Russian Federation." 19 *Review of Central & East European Law* 661.

Congressional Testimony

Dehgan, Alex. Dec. 2017. "Accelerating Innovation & Harnessing American Talent Through Prizes, Challenges, and Open Innovation," Testimony of Alex Dehgan before the House Science, Space, and Technology Committee, Subcommittee on Research and Technology.

SELECTED SCIENTIFIC AND POLICY LECTURES

Major Scientific & Conservation Lectures

Invited Panelist. June 2018. "Conservation Innovation". Capitol Hill Oceans Week (CHOW), organized by the National Marine Sanctuary Organization.

Plenary Panelist. July 2017. Conservation Entrepreneurship. Panelist, Conservation Entrepreneurship Symposium, International Congress for Conservation Biology, Cartagena, Colombia.

Workshop Organizer. July 2017. Hacking Conservation: Designing and Harnessing Exponential Technologies for Good, International Congress for Conservation Biology, Cartagena, Colombia.

Invited Speaker. April 2017. Earth Optimism Conference, Smithsonian Institution, Washington DC.

Presenter. March 2017. TEDxDuke. Conservation 3.0. Durham, NC 27706.

Panelist. October. 2016. SXSW Eco on the future of Conservation, Austin, TX.

Invited Speaker. Sept. 2016. Future of Conservation in Madagascar, 50th Anniversary of the Duke Lemur Center, Durham, NC.

Co-Organizer. January 2016. Duke's Winter Forum: Innovation for Madagascar. Durham, NC.

Key Note Speaker. November 2015. The Future of Conservation. 40th Anniversary of the Smithsonian Conservation Biology Institute, Washington, DC.

Speaker/Moderator. October 2015. Citizen Science for the Oceans, The White House, Washington, DC.

Symposium Organizer & Presenter. July 2015. Conservation 3.0. Defining the Future of Conservation. Given at the International Congress for Conservation Biology, Montpellier, France.

Lecturer. June 2015. Innovation & Design for Conservation & Development. Singularity University, NASA Moffett Field, CA.

Invited Lecturer. March 2015. Innovation for Conservation & Development. Ohio U., Athens, OH.

Invited Speaker. June 2014. Future of Conservation. Stockholm Resilience Center, Stockholm, Sweden.

Presenter. May 2014. Smithsonian Future is Here Festival. Selected as one of ten of the best Nerd Nite presentations of all time from across the country, Washington, DC.

Panelist, April 2014. Global Solutions Summit, Atlantic Council/State Department, Washington DC.

Panelist. April 2014. Global Health 2035: A World Converging in a Generation. Duke University.

Panelist. Feb. 2014. Grand Challenges: Science & Technology Solutions for International Development, American Association for the Advancement of Science Meetings, Chicago, IL.

Keynote. Nov. 2013. Second International Conference on Alfred Russel Wallace and Wallacea. Wakatobi, Southeast Sulawesi, Indonesia.

Invited Lecturer. March 2013. Global Environmental Speaker Series. University of Richmond.

Symposium Presenter. Feb. 2013. "Innovation for Conservation Biology", AAAS Annual Meeting, Boston, MA.

Invited Speaker. July 2012. "Development Challenges in Science and Innovations," Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA.

Invited Speaker. June 2011. "Nature on the move in a changing world" and "From Megaslums to Middle Class," Aspen Environmental Forum. The Aspen Institute/National Geographic, Aspen, CO.

Inaugural Speaker. June 2010. EINSTEIN Speaker Series, National Academy of Sciences, Wash. DC.

Symposium Organizer. December 2008. "Environmental Change, Conservation, and Conflict." Presented at the Ninth National Conference on Science, Policy, & the Environment, Washington, DC.

Seminar Speaker. Jan. 2008. "Biodiversity Conservation in Afghanistan", Department of Vertebrate Zoology, National Museum of Natural History, Washington, DC.

Oral Presentation & Panel Moderator. July 2007. "Results of the first wildlife surveys from Afghanistan in 30 years," Society for Conservation Biology Meetings, Port Elizabeth, South Africa.

Panel Presentation. October 2005. "Environmental Degradation as a Driver of Infectious Diseases", Environmental Protection Agency, Washington, DC.

Seminar Speaker. Oct. 2005. "The Behavior of Extinction: Plasticity-Dependent Changes in Demography, Behavior, and Physiology in Response to Fragmentation for Rainforest Lemurs in S.E. Madagascar", Department of Conservation Biology, University of Maryland, College Park, MD.

Oral Presentation. July 2004. "The Status of Conservation and Science in Iraq," Panel on Science & Policy, Society for Conservation Biology Conference, New York, New York.

Oral Presentation (Student Award Finalist). June, 2003. "Plasticity-Dependent Changes in Demography, Behavior, and Physiology in Response to Fragmentation for Rainforest Lemurs in S.E. Madagascar," Society for Conservation Biology Conference, Duluth, Minnesota.

Invited Speaker (with Dr. Sylvia Atsalis). May 2003. "Food, Sex and Deep Sleep, or How to Avoid Extinction in a Forest Fragment", The New York Consortium in Evolutionary Primatology, CUNY, NY.

Invited Speaker. Jan. 2003. "Predicting Extinction Proclivity for Lemur Species in Fragmented Habitats of S.E. Madagascar," Forestry School, Yale University, New Haven, CT.

Invited Speaker. Jan. 2003. "Lemurs, Fragments, and Extinction," Conservation Biology Seminar Series, University of Minnesota, Minneapolis-St. Paul, MN.

Invited Speaker. Jan. 2003. "The Behavior of Extinction: Initial Insights into Incidence Patterns of Lemurs in Forest Fragments", Animal Behavior Seminar Series, The University of Chicago, Chicago, IL.

Symposium Presentation. Aug. 2002. "Predicting Species Incidence in Fragmented Habitats in S.E. Madagascar", part of: "Tropical Forest Fragmentation: Complex Effects on Ecological and Ecosystem

Processes” (Organized by Dr. William F. Laurance and Dr. Pierre-Michel Forget), Assoc. for Tropical Biology Mtg., Panama City, Panama.

Oral Presentation. July 2002. “Lemur Populations in Fragmented Habitats of S.E. Madagascar”, Joint Conference of the Society for Conservation Biology & the British Ecological Society, Canterbury, UK.

Foreign Affairs, Legal, & Policy Lectures

Interview with Geoff DaBelko. Jan. 2019. Environmental Security in Afghanistan. Environmental Change and Security Program, Woodrow Wilson International Center, Washington DC.

Invited Testimony. Dec. 2017. Congressional Testimony on *Accelerating Innovation and Harnessing American Talent through Prizes, Challenges, and Open Innovation*, before the House Science, Space, and Technology Committee, Subcommittee on Research and Technology (Wednesday, Dec. 13, 2017, Rayburn Office Building, Washington, DC).

Invited Speaker. Sept. 2016. Department of State “Our Oceans” Conference, Washington, DC.

Invited Speaker. June 2016. The White House Open Data Meeting, Washington, DC.

Invited Speaker. May 2016. AAAS Science Diplomacy 2016, Washington, DC.

Closing Speaker. October 2015. Google Solve for X & AAAS. Catalyzing Innovation: Harnessing the Power of Moonshots, Grand Challenges, and Prize Competitions, Washington DC.

Panelist. September 2015. Innovation Models for the Developing World. CSIS, Washington, DC.

Keynote. October 2014. Kohlberg, Kravis, and Roberts, L.P. Sustainability Conference. Atlanta, GA.

Panelist. October 2014. Role of S&T in Global Development. CSIS. Washington, DC.

Keynote Address. Dec. 2013. 2013-2014 Inter-sessional Panel of the UN Commission on Science and Technology for Development, Washington, DC.

Panelist. Nov. 2013. The New Engineering Frontier: Manufacturing for the Grand Challenges. Organized by the National Academy of Engineering, Cary, NC.

Panelist. July 2013. Workshop: Using Science to Inform Policy: Making Your Science Relevant and Accessible for Decision-makers, Society for Conservation Biology Meetings, Baltimore, MD.

Keynote Speaker. May 2013. The Future of Science and Technology in International Development, Massachusetts Institute of Technology, Cambridge, MA.

Keynote Speaker. 2012, 2011, 2010. AAAS Leadership Seminar Keynote Lecture, Washington, DC.

Panelist. June 2012. “Leveraging Global Scientific Resources in the Developing World”, CSIS, Wash DC.

Panelist. Feb. 2012. “Rethinking Development by Leveraging Global Knowledge”, AAAS Annual Meeting, Vancouver, Canada.

Invited Speaker. Sept. 2011. “Leveraging Technology Innovation to Solve Development Challenges”, Center for Strategic and International Studies, Washington, DC.

Invited Speaker. Feb. 2011. “The Ecology and Evolution of Diplomacy, Development, and Defense”, A World Together: Duke and Global Development, Duke University, Durham, NC.

Panelist. May 2011. “Engaging Through Science: A Tool for U.S. Foreign Policy,” with Vint Cerf and Shirley Ann Jackson. Council on Foreign Relations, NY, NY.

Invited Speaker. Feb. 2011. “Science, Technology, and Innovation in Development”, CSIS, Wash, DC.

Invited Speaker. Nov. 2010. Center for Global Development, Washington, DC.

Invited Speaker. Jan. 2010. “Environmental Security in the Iran-Afghanistan Context”, Henry L. Stimson Center Symposium on Fresh Water Futures, Washington, DC.

Invited Speaker. Oct. 2009. “National Security & Science Diplomacy in Iraq: Transforming the US relationship”, Workshop on the US-Iraq Relationship, Parliament of Canada, Ottawa, CN

Symposium Organizer. Feb. 2009. “New Tools for Diplomacy,” AAAS Annual Conference, Chicago, IL.

Invited Speaker. Dec. 2008. Two presentations on “Science Cooperation” and “Environmental Security”, UCLA Conference on Middle East Security, Athens, Greece.

Invited Speaker. Dec. 2008. “Medical Diplomacy with Iran”, Conference on Culture, Health, and Human Security in the Middle East, Department of Defense, Arlington, VA.

Invited Panelist. Oct. 2007. “The Next Generation of Innovators”, American Medical Colleges Group of Graduate Research, Education, & Training Meeting, Assoc. of Am. Medical Colleges, Providence, RI.

Seminar Speaker. Oct. 2007. “Scientific Diplomacy in the Post-Cold War: Conservation, Biodiversity, and Conflict,” Science and Mathematics Department Colloquium Series, Columbia College, Chicago, IL.

U.S. Speaker to Tajikistan. Oct. 2007. Spoke on the development of Transboundary Peace Park and conservation as security to Tajik universities, academic institutes, Members of Parliament, the Ministry of Agriculture and the Ministry of Foreign Affairs, US Embassy, Dushanbe, Tajikistan.

Invited Speaker. June 2005. “Using Science and Technology to Promote Development and Foreign Policy”, UCLA Conference on Middle East Security, Athens, Greece.

Invited Speaker. October 2004. “Rebuilding Science and Environment in Iraq,” Science and Technology Policy Seminar Series, American Assoc. for the Advancement of Science (AAAS), Washington, D.C.

Invited Speaker. March 1998. “The Potential and Pitfalls of the Lusaka Convention.” International Wildlife Law Conference (with the American Society of International Law Conference), Wash. D.C.

Panel Presentation. 1997. “Law, Economics, & Extinction.” Central States Anthropology Mtg, Detroit, MI.

SELECTED MEDIA PROFILES

➤ *Print and Internet Media*

Tom McCarthy. 2019. “Saving snow leopards in a war zone”, *Nature* (January 15, 2019).

Virginia Gerwin. 2018. “A Handheld DNA Scanner Could Crack Down on Wildlife Identity Theft”, *The Atlantic* (Feb. 9, 2018). Available at https://www.theatlantic.com/technology/archive/2018/02/conservation-tech/552779/?utm_source=twb

Eillie Anilott. 2017. “Bold Conservation Ideas go from Concept to Reality on this new collaboration platform,” *Fast Company* available at <https://www.fastcompany.com/40468095/bold-conservation-ideas-go-from-concept-to-reality-on-this-new-collaboration-platform>

Jennie Specter. 2016. “Harnessing Innovation for Conservation: Interview with Alex Dehgan” *Solutions Journal* (March/April): 16-19.

Shreya Dasgupta. 2016. “[New ‘Blue Economy Challenge’ wants your solutions to transform the aquaculture industry](#)”, Mongabay.com (4 March 2016).

Casey Dunning. 2014. “What is the Future of USAID’s Global Development Lab? An Interview with Alex Dehgan”, Center for Global Development (August 18, 2014).

Spitzer, Chris. 2014. “[Rebuilding Science at USAID](#)”, *AAAS Member Central* (Jan. 7, 2014).

AAAS. 2013. 40@40. “[Alex Dehgan](#)”. AAAS (Dec. 2013).

Piotrowski, Jan. 2013. “[Science ‘has regained its old influence within USAID’](#)”, *SciDev.Net* (Dec. 17, 2013)

Tatalovic, Mico. 2013. “[USAID’s Chief Scientist, Alex Dehgan, resigns](#)”, *SciDev.Net* (Dec. 13, 2013)

- Dickson, David. 2012. "[USAID Moves in the Right Direction](#)", *SciDev.Net* (Nov. 23, 2012).
- Piotrowski, Jan. 2012. "[USAID Steps up its Science Effort](#)", *SciDev.Net* (Nov. 16, 2012).
- Bluestein, Adam. 2012. "[What Studying Primates Taught Alex Dehgan About the Wilds of Washington](#)", *Fast Company* (July 2nd, 2012).
- Johnson, J. 2010. "[USAID Appointment Boosts Science Diplomacy Focus](#)", *SciDev.Net* (8 April 2010).
- Editorial Staff. 2008. "[Movers: Alex Dehgan, senior scientist and policy adviser, US Department of State, Washington DC](#)", *Nature* 451 (862) (13 February 2008).
- Hutchinson, Nathan. 2007. "Environmental Education for Afghans Essential, U.S. Officials Say, *DoD News* (Aug. 15, 2007), available at "<http://archive.defense.gov/news/newsarticle.aspx?id=47061>
- Mongabay.com. 2007. "[Adventures in conservation: protecting wildlife in Afghanistan](#)", featured at <http://news.mongabay.com/2007/0807-interview-dehgan.html>.
- Stowe, Stacey. 2007. "[Preserving Land and Wildlife, to Restore Afghan Identity: A Conservation with Alex Dehgan](#)," *Science Times, New York Times*, March 6, 2007.
- Chandrasekaran, Ravjiv. 2006. "Breaking the Rules," *Imperial Life in the Emerald City: Inside Iraq's Green Zone* Chapter 14. (Alfred A. Knopf, New York). Turned into the movie *Green Zone*.
- Edemariam, Yohannes. 2005. "[Icons: Introducing 15 people who have shaped the global conversation about science in 2005](#)" (Seed Magazine's annual Third Culture issue celebrates the achievements of 15 young people who are redefining science & culture), *Seed Magazine* (Dec/Jan 2006).
- Lempinen, Edward. 2005. "AAAS S&T Policy Fellows Risk Lives to Rebuild Iraq." *Science* 309: 1336 (26 August 2005).
- Lempinen, Edward. 2005. "AAAS Diplomacy Fellow Alex Dehgan in Iraq: Caught in the Crossfire", AAAS News Release (16 August 2005), at www.aaas.org/news/releases/2005/0816dehgan2.shtml.
- Lempinen, Edward. 2005. "AAAS Diplomacy Fellow Alex Dehgan Wins State Department Honor", AAAS News Release (16 August 2005), at www.aaas.org/news/releases/2005/0816dehgan.shtml.
- Lempinen, Edward. 2004. "Rebuilding Science in Iraq, One Scientist at a Time," AAAS News Release (07 Sept. 2004), available at 'www.aaas.org/news/releases/2004/0907dehgan_qa.shtml', and *reprinted in American Physical Society Newsletter* (December 2005, Vol 13:11) and in the *Field Museum of Natural History Magazine* (Fall 2005).
- United States Institute for Peace. 2004. "Interview with Alex Dehgan," Oral Histories Project: Iraq Experience Project (14 August 2004).
- Stone, Richard. 2004. "Coalition Throws 11th-Hour Lifeline to Iraqi Weaponers," *Science* 304:1884 (25 June 2004).
- Stone, Richard. 2004. "New Initiatives Reach Out to Iraq's Scientific Elite" *Science* 303:1594 (12 March 2004).

➤ *Television & Radio Interviews*

- BBC World Service (live) Newday (World's largest breakfast show)*. 2018. Live interview on the future of conservation. February 11, 2018
- The Business of Giving (Denver Frederick)*. *New York AM 970*. Dec. 10, 2017.
- Kojo Nnamdi Show*. 2012. *Science Diplomacy*. Live one hour radio interview. WAMU: Washington DC Public Radio. Broadcast on July 25, 2012.
- Worldview*. 2007. *Conservation During Wartime*. Radio interview. WBEZ: Chicago Public Radio. Broadcast on December 3, 2007.
- Voice of America*. 2007. Live television (Dari and Pashtu Broadcast Services) & radio interviews. Broadcast on April 17, 2007.

National Geographic World Talk. 2007. Radio interview. National Geographic Radio (XM Radio/Public Radio International), February 15, 2007.

Al Arabiya Television. 2006. Interview on the Iraqi Virtual Science Library. Broadcast on May 3, 2006.

Science Times. 2001. Television show. Profiled on doctoral research; filmed in Madagascar. Produced by the *New York Times*.

➤ Podcasts

UnDark. 2019. *The Snow Leopard Project*. <https://undark.org>

WOUB/Spectrum. 2019. Wildlife Conservation in a Warzone: Perils and Triumphs in Afghanistan (Jan. 16, 2019), <https://www.npr.org/podcasts/486931216/spectrum>.

Speak up for Blue. 2018. Season 2, Episode 7. Make for the Planet with Alex Dehgan.

Inspiring Social Entrepreneurs (Podcast). 2017. Interview with Alex Dehgan. Ep. 71. Feb 17, 2017,

Science Soapbox (Podcast). 2016. Science Diplomacy, Conservation & Optimism in Science. May 15.

World Learning Now (Podcast). 2016. Rethinking Conservation. March 8, 2015.

TEACHING EXPERIENCE

Guest lecturer or Seminar Speaker at Singularity University, Yale University, Massachusetts Institute for Technology, Carnegie Institute for Science (Dept. of Global Ecology), Princeton University, California Institute of Technology, NASA Jet Propulsion Laboratory, Duke University, The University of Pennsylvania, The University of Chicago, Rockefeller University, Virginia Tech, the National War College, University of Pennsylvania, the University of Maryland, Texas Tech University, City University of New York, the College of William and Mary, Texas A&M University, Ohio University, Michigan State University, the University of Minnesota, Makerere University (Uganda), George Washington University, American University, Carnegie Mellon University, Lawrence Berkeley National Lab, and USGS.

Spring 2016-2019. **Hacking Conservation & Development**. Duke Innovation & Entrepreneurship Institute, Nicholas School of the Environment, & Sanford Public Policy School, Duke University, NC.

Fall 2017. **International Development Policy**, Heinz College, Carnegie Mellon University (Co-taught with Susan Reichle).

June 2016. **Innovation and Design for Global Grand Challenges**. Designed and launched a massive open online course (MOOC) developed through Duke University and Coursera. Taken by over 5,500 students from over 130+ countries.

January 2016. **Madagascar 2030: Sustainable Development Innovation Challenge**. Codesigned and taught the Duke Winter Forum on innovation for conservation & development.

Fall 2002. **Ecology and Evolution**, Natural Sciences for Non-majors Sequence, Collegiate Division, The University of Chicago. This course surveyed the major principles of ecology and evolutionary biology.

Winter 1998. **Biogeography**, Committee on Evolutionary Biology, The University of Chicago. *Finalist for the UC Biological Sciences Division teaching award.*

Winter Quarter, 1998-2001. **Scientific Integrity and the Ethical Conduct of Research**, Biological Sciences Division, The University of Chicago.

1996-1998. Graduate Standardized Exams (**GRE, LSAT, GMAT**), Kaplan Test Prep, New York, NY & Chicago, IL. Taught test preparation courses for GRE, LSAT, and GMAT.

SERVICE

Award Committees

Nominator, and Member, Final Selection Committee, **Moore Innovation Prize**. 2017-2019.

Nominator, **MacArthur Genius Awards**. 2017.

Selection Committee, **Lemelson-MIT Prize**, April 2012 – 2015. The \$500,000 Lemelson-MIT Prize recognizes individuals who translate their ideas into inventions and innovations that improve the world in which we live.

Selection Committee, **Emerging Leaders in Science & Society**, August 2014. Emerging Leaders in Science & Society is a leadership development program for graduate students from all fields who are eager to collaborate across boundaries for the benefit of society.

Boards & Advisory Councils

Member, Board of Advisors, **Mortensen Center for Global Engineering, University of Colorado**. Dec. 2018 – Present.

Member, Board of Director, **Wildme**. Feb. 2018 – Present.

Member, Board of Directors, **Key Conservation**. Jan. 2018 – Present.

Member, President's Advisory Council, **CRDF Global**. April 2014 – Present. CRDF Global is an independent, nonprofit organization established in 1995 to promote international scientific and technical collaboration through grants, technical resources, training, and services.

Member, Global Advisory Council, **World Learning**. May 2014-Present. Serving on the global advisory council for World Learning to bring in perspectives from how to harness science, technology, and innovation for advancing global education objectives.

Member, Expert Review Committee, **Grand Challenges Canada**. March – August 2015. Review committee for Canadian development innovation organization, Grand Challenges Canada.

Elected Member, Board of Governors, **Society for Conservation Biology**. July 2012 – June 2015. Elected to a three-year term to the Board of Governors for the Society for Conservation Biology, an international scientific and professional society with more than 5,000 members world-wide, devoted to advancing the science and practice of conserving Earth's biological diversity. Past-President & Founder, DC Chapter; Policy Committee of the Board of Governors),

MEMBERSHIPS AND LICENSES

Membership and Licenses: California Bar; Bar of the U.S. Court of International Trade; Passed the written and oral portions of the Foreign Service Exam (Economic Cone). Held TS/SCI clearance.

Languages: *Persian (2/1), English (5/5), French (2/2).*

Activities: Avid Sailor (ASA 104), Scuba Diver (PADI Advanced/Nitrox), Adventurer, Naturalist & Explorer (80 countries across 6 continents).