Charlie Chesney

Santa Cruz, CA - linkedin.com/in/charliechesney/

EDUCATION

University of California, Santa Cruz - PhD Environmental Studies, *Sept '20-June '25*
University of Oxford - MSc Biodiversity, Conservation & Management, *Oct '17-Sept '18*
San Francisco State University - BSc Biology/Zoology, *Aug '11-May '15*

TEACHING EXPERIENCE

CRSN-151b Sustainability Innovation; UC Santa Cruz - TA, *Fall Quarter '20*
- Helped refine presentation slides and quarter schedule, created & facilitated icebreakers
- Communicated homework assignments, held office hours, & assigned grades
- Coordinated & co-facilitated NSF I-Corps workshops

Climate Corps Fellow at Earth Team; Richmond, CA - Program Associate, *Oct '19-Aug '20*
- Created & taught watershed, climate, STEM career & sustainability curriculum to 2 teams of 14 youth at Title 1 high schools
- Guided youth through restoration, research & community outreach projects: art fair, award-winning social media campaigns, & virtual board game design

RESEARCH EXPERIENCE

Living Solar Panels; UCSC - PhD student advised by Dr. Michael Loik, *Oct '20-Present*
- Conduct experiments relating to plant physiology and voltage fluctuations

ESGINE; Oxford, UK - Sustainability Research Analyst, *June '18-Jan '19*
- Analyzed industry impacts on the Sustainable Development Goals
- Analyzed stock market sustainability indices methodologies
- Compiled machine learning corpus for sustainability analytics algorithm

Using Smart Contracts to Attract Conservation Investment; **University of Oxford -** MSc student advised by Dr. Paul Jepson, *May '18-Sept '18*
- Researched possibilities & limitations of blockchain technology for nature conservation
- Conducted 11 informal & 11 semi-structured interviews using snowball sampling
- Developed model "Herd Token" blockchain smart contract for rewilding investment

San Francisco Zoo; CA - Student Researcher, *Feb '14-May '15*
- Became the first student researcher at the Wellness & Conservation Center
- Recruited & trained 2 students in ethograms, data collection & analysis
- Managed student team on 3 simultaneous projects

PROJECT MANAGEMENT & INNOVATION

Drawdown Bay Area; Remote - Research Coordinator, *Aug '20-Oct '20*
- Recruited, trained & managed 4 Research Associates
- Participated in ideation & development of network-based Bay Area Climate Action Map

Fake Nature - Personal Project, *June '17-Present (intermittent)*
- Developed natural language processing algorithm to generate nature documentary scripts & wildlife "facts" shared through a Twitter bot
- Created robotic "Spy Duck" prototype to remotely film waterfowl

Innovation Projects - Project Leads, *Jan '18-Oct '19*
- Led product design for start-up projects relating to time management (KanPlan Board), carbon offsetting app (NeuTreeLize), & blockchain-based investment platform (Wild-SCIP)

SCIENCE COMMUNICATION

The Feedback Project; Remote - Researcher & Editor, *June '20-Present (intermittent)*
- Researched racism embedded in feedback loops related to food & environmental justice
- Wrote & edited educational website pages
- Advise 2 undergraduates on research topic selection & edit blog articles

Science & Us - Participant & Mentor, *July '20-Present (intermittent)*
- Created podcast episode on zoonotic disease with high school student located in India

World Wildlife Fund, Panda Labs; Remote - Blockchain Specialist, *March '19-Aug '20*
- Facilitated the collaboration between World Wildlife Fund, Ecosulis & Oxford
- Researched & wrote report on emerging blockchain uses for the environment

Science Through Story - Workshop Attendee, *Feb '20*

Titans of Nuclear Podcast; Remote - Note Taker, *Aug '19-Nov '19*
- Summarized episodes, defined acronyms & clearly explain complex, technical topics
- Provided video editing notes, identified audio quotes & selects bullet points for SEO

BCM Podcast; University of Oxford - Co-Creator & Co-Host, *Nov '17-April '18*

North Livermore BioBlitz; Livermore, CA - Organizer & Guest Teacher, *July '17*
- Worked with community groups to organize BioBlitz to encourage community members to explore newly designated preserve
- Guest taught 4th grade science class about local biodiversity & led them in creating their own field identification notebooks

[Popular Science Publications](#) & [Personal Blog](#)

FIELDWORK

Manav Sadhna; Ahmedabad, Gujarat, India - Volunteer, *June '17-July '17*
- Worked with organization to conduct health checks on women and children

Livermore Area Recreation & Parks District; CA - Living Arroyos Intern, *Jan '17-June '17*
- Led restoration volunteer days of 20+ participants
- Conducted biodiversity surveys, mitigation & restoration activities

Ventana Wildlife Society; Big Sur, CA - California Condor Intern, *Feb '16-Aug '16*
- Co-managed field site & trained new intern on protocols
- Monitoring, tracking & behavior observations, animal handling & husbandry

Yellowstone National Park; WY - Raptor Migration Counter, *Sept '15-Oct '15*
- Collected raptor migration data for duration of migration season

Graduate Research; SF State University - Undergraduate Research Assistant, *Feb '14-May '15*
- Helped graduate students collect data in the field relating to avian west nile virus in White-crowned Sparrows and "Zombees" in European Honey Bees

La Suerte Biological Research Station; Costa Rica - Field Primate Behavior Student, *July '14*

PEER-REVIEWED PUBLICATIONS

Krebs, B., Torres, E., **Chesney, C**., Kantoniemi Moon, V., Watters, J. (2017) "[Applying Behavioral Conditioning to Identify Anticipatory Behaviors](#)." Journal of Applied Animal Welfare Science 20.2: 155-75

PRESENTATIONS

Becoming a STEM Researcher, Earth Team Guest Speaker, *Dec '20*
Technology for Conservation, Climate Corps AmeriCorps Webinar Series, *April '20*
Blockchain for Nature & People, Blockchain for Social Impact Coalition Incubator, *Feb '20*
New Finance Mechanisms Panel, Blockchain for Social Impact Coalition Conference, *June '19*
Smart Contracts for Conservation Investment, WildCRU Colloquium, Oxford, *May '18*

GRANTS, AWARDS & RECOGNITIONS
AmeriCorps Education Award, ($10,000), *Aug '20*
Conservation X Labs Technology Prize, Grand Prize Winner ($20,000), *Nov '19*
17 Ideas That Could Change the World, World Wildlife Fund, *Oct '19*
NeuTreeLize Funding, World Wildlife Fund Impactio, ($600), *Aug '19*
Distinction Award, Jesus College, Oxford (£300), *Sept '18*
Dissertation Distinction, University of Oxford, *Sept '18*
Travel Grant, Jesus College, Oxford (£800), *June '18*
Academic Achievement, Michelle Obama, *Aug '17*
***Atlas Shrugged* Essay Competition,** Ayn Rand Institute, Finalist ($100), *Aug '17*
Magna Cum Laude, San Francisco State University, *May '15*

CERTIFICATIONS
Human Subject Training *April '21*
Mental Health First Aid *Aug '20*
Data Analysis with Python *May '20*
Adult and Pediatric First Aid/CPR/AED *Nov '19*

SKILLS
Academic Writing & Conference Presentations
Biodiversity Surveys & Species Identification
Lean Agile Methodologies & Product Development
Lesson Planning & Mentoring Students
Popular Science Communication & Community Science
Project Management & Coordination
Quantitative/Qualitative Methods & Analytics
R & Python for Analytics, Visualizations & Machine Learning Algorithms