

## Michael A. Coe

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### *Education*

- 2019, University of Hawai'i at Mānoa, PhD. Botany (Ecology, Evolution, Conservation, Biology)
- 2018, University of Hawai'i at Mānoa, M.S. Botany (Ecology, Evolution, Conservation, Biology)
- 2012-2015, University of Hawai'i at Mānoa, B.S. Ethnobotany—*Cum Laude*

### *Research Interests*

- Biocultural Conservation
- Plant Demography
- Integral Projection Modeling
- Traditional Ecological Knowledge
- Ethnobotanical Theory

### *Skills*

- Demographic Modeling in *R*
- Phylogenetic Generalized Least Squares Analysis in *R*
- Regression Analyses in *R*
- Certified IUCN National & Regional Specialist
- Certified Herbarium, Plant Collection & Biomedical Safety
- Spanish - Speak, Read, & Write with Confidence; Conversational Portuguese

### *Grants and Awards*

- 2015-2019, Graduate (GA 09) \$18,930
- 2014, 2017-2018, Winona Pi'ilani Scholarship \$3,664
- 2018, Beatrice Krauss Fellowship Fund \$1,750
- 2018, Harold and Elizabeth St. John Scholarship \$3,000
- 2018, Research Corporation UH Fund \$950.<sup>00</sup>
- 2017, Anne S. Chatham Fellowship \$4,500
- 2016-2017, Beatrice Krauss Fellowship Fund \$1,458
- 2016, Richard Evans Schultes Research Award \$2,500
- 2016, GSO Research Award \$1,000
- 2014-2015, SEOG Graduate Award \$2,000
- 2014, UROP Grant \$5,000
- 2014, Isabella Aiona Abbot \$1,000
- 2014, Torrey Degener Rock \$1,500

### *Employment and Teaching Experience*

- 2016-2019, Graduate TA of BOT 420 (Plant Form & Function)
- 2015-2019, Graduate TA of BOT 105 (Applied Ecology & Ethnobotany)
- 2016, Graduate TA of BOT 461 (Plant Systematics)

### *Synergistic Activities*

- 2017-2020, Alianza Arkana Research Associate, Global climate change workshop & Botanical garden project, Shipibo-Konibo community of Paoyhan (Ucayali Region, Peru)
- 2019 – present, Advisory Board, Richard Evans Schultes Center for Amazonian Ethnobotanical Research. <https://www.schultescenter.org/our-team>

### *Peer Review Publications*

- **Coe, M. A., & Gaoue, O.G.** (2021). Demography and transient dynamics of ayahuasca, *Banisteriopsis caapi* Spruce ex. Griseb., in harvested ecosystems. In Prep for Journal of *Applied Ecology*.
- Gaoue, O.G., Moutouama, J.K., **Coe, M.A.**, & Bond, M. O. et al., (2021). Methodological advances for hypothesis-driven ethnobotany. *Biological Reviews*. In Revision
- Gerren, A., **Coe, M. A.**, Yessoufou, K., Gaoue, O.G. (2021). The Doctrine of Signatures: Does plant form recapitulate its therapeutic function? A test for red sap plants. *Economic Botany*. In Revision
- **Coe, M. A., & Gaoue, O.G.** (2021). Phylogeny explains why less therapeutically redundant species are not necessarily facing greater use-pressure. *People & Nature*. In Press
- **Coe, M. A., & Gaoue, O.G.** (2020). Cultural keystone species revisited: Are we asking the right questions. Journal of *Ethnobiology and Ethnomedicine*, 16(1), 1-11.
- **Coe, M. A., & Gaoue, O.G.** (2020). Most cultural importance indices do not predict species cultural keystone status. *Human Ecology*, 48(6), 721-732.
- **Coe, M. A. & McKenna, D. J.** (2017). Therapeutic potential of Ayahuasca. In D. Camfield et al. (eds.), Evidence-based Herbal and Nutritional Treatments for Anxiety Disorders (pp. 123-137). Springer Berlin Heidelberg.
- Gaoue, O.G., **Coe, M. A.**, Bond, M., Hart, G., Seyler, B., & McMillen, H., (2017). Theory and Major Hypotheses in Ethnobotany. *Economic Botany*, 71(3), 269-287.

### *Dataset and R Script contributed to open access digital repositories*

- **Coe, M. A., & Gaoue, O.G.** (2021) Data and R script from: Phylogeny explains why less therapeutically redundant species are not necessarily facing greater use-pressure. **Dryad Digital Repository** <https://doi.org/10.5061/dryad.69p8cz91x>.
- **Coe, M. A., & Gaoue, O.G.** (2020) Data from: Most cultural importance indices do not predict species cultural keystone status. **Dryad Digital Repository** <https://doi.org/10.5061/dryad.xwdbrv1bh>.
- **Coe, M. A., & Gaoue, O.G.** (2020) Data from: Cultural keystone species revisited: Are we asking the right questions. **Dryad Digital Repository** <https://doi.org/10.5061/dryad.15dv41nvh>.

- Gaoue, O.G., Moutouama, J.K., **Coe, M.A.**, & Bond, M. O. et al., (2021). *R script* for Methodological advances for hypothesis-driven ethnobotany. ***Github***

*Manuscript Reviewer*  
(<https://publons.com/a/3625517/>)

- *Economic Botany (1)*

*Presentations*

- 2020—**Coe, M.A.** Most cultural importance indices do not predict species cultural keystone status. ***Invited Talk in a Symposium***, Society for Economic Botany Meeting, Virtual / New York.

*Guest Lectures*

- BOT 105 Introduction to Ethnobotany      Fall 2015-2019
- BOT 200 Sophomore Seminar              Fall 2019
- BOT 420 Plant Anatomy & Physiology      Fall 2017
- BIOL 440 Psychoactive Plants              Fall 2017-2019
- BOT 440 Advanced Ethnobotany          Fall 2018

*Professional Memberships*

- Society for Economic Botany
- Botanical Society of America
- Society for Ethnobiology