

# ERICA KRIMMEL

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**OBJECTIVE:** Be the indispensable wingman of biodiversity researchers big and small by impacting the quality of, efficiency to access, and end distribution of relevant data.

**DIGITAL PORTFOLIO:** [www.ericakrimmel.com](http://www.ericakrimmel.com) // <https://orcid.org/0000-0003-3192-0080>

**PROFESSIONAL INTERESTS:** natural history collections, biodiversity informatics, data visualization

## EDUCATION:

**San Jose State University** Masters Library & Information Science, 2014

**University of California, Santa Cruz** B.A. Environmental Studies, 2009

**TECHNICAL SKILLS:** R, SQL, XML, JSON, HTML/CSS, PHP, OpenRefine, GIS, Photoshop

## PROFESSIONAL EXPERIENCE

iDigBio Digitization Resources Coordinator at **Florida State University** (2019 - present)

*Supervisor: Austin Mast*

Serves as a core member of iDigBio, a project funded by the National Science Foundation to be the national resource for digitized information about vouchered natural history collections. Identifies community needs related to digitization processes and skills. Responds to needs by coordinating and/or developing training products in the form of workshops, webinars, conference symposia, etc. Curates community knowledge and expertise. Collaborates directly with community members via iDigBio thematic working groups. Maintains relationships with diverse stakeholders in the biodiversity collections community.

Assistant Collections Manager at **Natural History Museum of Los Angeles, Los Angeles CA** (2018 - 2019)

*Supervisor: Austin Hendy*

Responsible for data management within the Invertebrate Paleontology department. Managed migration of data and media into the institution's collection management software. Analyzed and mobilized specimen datasets for distribution via online biosciences data repositories. Collaboratively developed tools to visualize and improve paleo data across the collections community. Identified and cataloged specimens. Assisted in supervising 2-5 part-time staff and 10+ volunteers at any given time. Represented the Invertebrate Paleontology department in Museum outreach events and at professional meetings.

Assistant Collections Manager at **Chicago Academy of Sciences, Chicago IL** (2015 - 2018)

*Supervisor: Dawn Roberts*

Collaborated with Director of Collections to preserve and expand the Academy's diverse natural history collections. Led the evaluation, selection, and migration processes of the Academy's transition to formal collection management software. Improved accessibility of collections data and reached out to broader audiences by pursuing digital opportunities. Provided primary data management expertise for the department. Recruited and supervised 20-25 interns and volunteers. Participated in departmental budget planning, grantwriting, and strategic planning. Maintained safety and functionality of offsite facility.

Co-owner of **T&E Catering, Truckee CA** (2013 - 2015)

Provided contract catering services to Sagehen Creek Field Station user groups of 10-50 people. Coordinated directly with guests to determine needs. Designed, supplied, and executed menus with the assistance of co-owner Travis Bott. Maintained kitchen area onsite.

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Collections Manager at **Sagehen Creek Field Station, Truckee CA** (2011 - 2015)

*Supervisor: Jeff Brown*

Maintained biodiversity collections on site. Initiated, advanced, and documented digitization of collections and sharing of data via online repositories. Served as a point of contact for scientists working at the field station, and provided reference services. Documented value of these collections to administrators, scientists, and external collections professionals through data visualization and reporting. Coordinated volunteers and organized outreach for collection workdays, data entry, and special projects.

Tutor at **Clever Minds Educational Services, Truckee CA** (2010 - 2013)

*Supervisor: Vicki Isacowitz*

Designed and provided instruction for students in language arts, science, and math from grades K through 12. Specialty areas included biology, SAT test prep, algebra, and writing.

Vegetation Crew Lead at **U.S. Forest Service, South Lake Tahoe CA** (2012)

*Supervisor: Tray Biasioli*

Led team of 2-4 technicians in following protocol to survey vegetation for fuels management research. Planned survey sites for maximum field season efficiency. Reported field progress to offsite supervisor.

Curatorial Assistant at **UCSC Museum of Natural History Collections, Santa Cruz CA** (2006 - 2009)

*Supervisor: Chris Lay*

Prepared specimens for the collections. Undergraduate thesis studied how the museum could incorporate online technology to increase its visibility; project deliverables included a campus natural history website.

## RECENT COLLABORATIONS

**Paleo Digitization Working Group** ([https://www.idigbio.org/wiki/index.php/Paleo\\_Digitization\\_Working\\_Group](https://www.idigbio.org/wiki/index.php/Paleo_Digitization_Working_Group)) This iDigBio-sponsored, community-driven working group focuses on examining issues and providing guidance related specifically to paleontological collections digitization and digital data dissemination.

**Arctos Collaborative Collections Management Solution** (<https://arctosdb.org>). Arctos is a collaboration of 20+ institutions working together to build a high-quality, cost-effective solution for managing biodiversity collections data. As a member of the working group I represented the institutional perspective of the Chicago Academy of Sciences, contributed to documentation, and led a monthly webinar series for the community.

**Connecting Students to Citizen Science and Curated Collections** (<https://collectionseducation.org>). This project is a curriculum developed by myself and five collaborating faculty with the goal of integrating traditional fieldwork practices, ongoing citizen science initiatives, and digital-age herbarium curatorial skills to introduce undergraduate students to information literacy concepts in the context of a systematic botany course.

**Research Impact of Small Herbaria.** Collaborators representing ten states are working together to quantify the research impact of small herbaria on our spatial and temporal knowledge of plant biodiversity. I am the representative for California as well as currently the lead on data analysis.

## HONORS, AWARDS, & GRANTS

2018 Co-PI, Biodiversity Collections Network Grant: "Recruiting, supporting, and sustaining small collections in biodiversity digitization"

2016 Co-PI, National Science Foundation DBI-1601700 Grant: "Augmenting the temporal and geographic range of InvertEBase through additional collaboration of the Chicago Academy of Sciences"

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- 2015 Recipient, The Switzer Foundation Professional Development Grant
- 2015 Recipient, Society for the Preservation of Natural History Collections Fitzgerald Travel Grant
- 2013 Switzer Environmental Fellow, The Switzer Foundation
- 2006-2009 Regents Scholar, University of California, Santa Cruz

## PRESENTATIONS & WORKSHOPS

Ecological Society of America Annual Meeting. Presentation: *Promises and progress in aggregated biodiversity occurrence data*. Virtual. 2020.

Ecological Society of America Annual Meeting. Presentation: *Reading data directly into your analysis script: Introduction to APIs*. Virtual. 2020.

Society for the Preservation of Natural History Collections Annual Meeting. Symposium: *Envisioning Collections Management for the Evolving Biodiversity Data Lifecycle (planning team)*. Virtual. 2020.

Digital Data in Biodiversity Research Conference. Workshop: *R and the iDigBio API Workshop*, co-presenter with Ron Canepa. Virtual. 2020.

Workshop: *Georeferencing for Paleo: Refreshing the approach to fossil localities (planning team)*. Virtual. 2020.

Biodiversity Next Conference. Workshop: *Biodiversity Informatics 101 (planning team)*. Leiden, Netherlands. 2019.

Natural History Museum of Los Angeles, Research & Collections Department Meeting. Presentation: *NHMLA Collections in the Digital Biodiversity Data Ecosystem*. Los Angeles, CA. 2019.

Society for the Preservation of Natural History Collections Annual Meeting. Presentation: *Balancing Efficiency and Accuracy in the NHMLA Invertebrate Paleontology Collection*. Chicago, IL. 2019.

Society for the Preservation of Natural History Collections Annual Meeting. Symposium: *No Collection Left Behind: Research Contributions of Small Collections (planning team)*. Chicago, IL. 2019.

Virginia Polytechnic Institute and State University, Natural History Collections and Curation course. Guest Lecture (online): *Digital Lifecycle of Natural History Collections Data (invited)*. 2019.

Digital Data in Biodiversity Research Conference. Session: *Increasing the Research-Readiness of Biodiversity Collections Data*. Berkeley, CA. 2018.

Arctos Collection Management Solution Webinar Series. Webinar: *Data Cleaning Tools for Migrating Data into Arctos*, co-presenter with Andrew Doll. 2018.

Society for the Preservation of Natural History Collections Annual Meeting. Poster: *Better quality, less work: How to improve collections data with the efficient use of resources provided by aggregators and consortia*. Denver, CO. 2017.

Biodiversity Informatics 101 Workshop. Presentation: *Collection Management Systems: Laying the Groundwork for Biodiversity Informatics (invited)*, co-presenter with Gary Motz. Denver, CO. 2017.

Society for the Preservation of Natural History Collections Annual Meeting. Presentation: *Evaluating Collection Management Systems for Interdisciplinary Natural History Collections*. Berlin, Germany. 2016.

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Society for the Preservation of Natural History Collections Annual Meeting. Poster: *CollectionsEducation.org: Connecting Students to Citizen Science and Curated Collections*. Berlin, Germany. 2016.

Organization of Biological Field Stations Annual Meeting. Workshop: *Field Station Digitization (planning team)*. Gothic, CO. 2015.

Global Network of Mountain Observatories Meeting. Presentation: *Managing Biodiversity Data for Current and Future Science (invited)*. Gothic, CO. 2015.

Biodiversity Collections Network. *Collections Communication Workshop (invited participant)*. Chicago, IL. 2015.

Society for the Preservation of Natural History Collections Annual Meeting. Presentation: *Small collections working together: CollectionsEducation.org (invited)*. Tallahassee, FL. 2015.

Botany Conference. Workshop: *Recruiting, Supporting and Retaining Small Collections in Biodiversity Digitization (planning team)*. Boise, ID. 2014.

## PUBLICATIONS

Monfils AK, **Krimmel ER**, et al. 2020. Regional Collections are an Essential Component of Biodiversity Research Infrastructure. *BioScience*. Accepted.

Marsico TD, **Krimmel ER**, Carter JR, Gillespie EL, Lowe PD, McCauley R, Morris AB, Nelson G, Smith M, Soteropoulos DL, Monfils AK. 2020. Small herbaria contribute unique biogeographic records to county, locality, and temporal scales. *American Journal of Botany*. Accepted.

Ellwood ER, Sessa JA, Abraham JK, Budden AE, Douglas N, Guralnick R, **Krimmel E**, Langen T, Linton D, Phillips M, Soltis PS, Studer M, White LD, Williams J, Monfils AK. 2020. Biodiversity Science and the Twenty-First Century Workforce. *BioScience* 70(2):119-121. doi: [10.1093/biosci/biz147](https://doi.org/10.1093/biosci/biz147)

Hendy AJ, Walker LJ, **Krimmel ER**, Sessa JA. 2018. Bringing Back the Buzzing of the Bees: Enhancing the Discovery of Fossil Insect Collections with the ePANDDA API. *Biodiversity Information Science and Standards* 2:e26496. doi: [10.3897/biss.2.26496](https://doi.org/10.3897/biss.2.26496)

Walker LJ, **Krimmel ER**, Vendetti JE, Hendy AJ. 2018. Leveraging Collective Experience to Digitize the Fossil Insects of Los Angeles. 2018. *Biodiversity Information Science and Standards* 2:e26385. doi: [10.3897/biss.2.26385](https://doi.org/10.3897/biss.2.26385)

Ellwood ER, Kimberly P, Guralnick R, Flemons P, Love K, Ellis S, Allen JM, Best JH, Carter R, Chagnoux S, Costello R, Denslow MW, Dunckel BA, Ferriter MM, Gilbert EE, Goforth C, Groom Q, **Krimmel ER**, LaFrance R, Martinec JL, Miller A, Minnaert-Grote J, Nash T, Oboyski P, Paul DL, Pearson KD, Pentcheff ND, Roberts MA, Seltzer CE, Soltis PS, Stephens R, Sweeney PW, von Konrat M, Wall A, Wetzler R, Zimmerman C, and Mast AR. 2018. Worldwide Engagement for Digitizing Biocollections (WeDigBio) – The Biocollections Community's Citizen Science Space on the Calendar. *Bioscience* 68(2):112-124. doi: [10.1093/biosci/bix143](https://doi.org/10.1093/biosci/bix143)

Paul D, Zermoglio P, Wiczorek J, Motz G, **Krimmel E**. 2017. Standards in Action: The Darwin Core Hour. *Proceedings of TDWG* 1:e20280. doi: [10.3897/tdwgproceedings.1.20280](https://doi.org/10.3897/tdwgproceedings.1.20280)

**PROFESSIONAL AFFILIATIONS:** Biodiversity Information Standards (TDWG), California Native Plant Society, Society for the Preservation of Natural History Collections, Society of Herbarium Curators (membership committee chair, 2017-2020).