

Alexandra Tew

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Certifications and Proficiencies

- Database creation and advanced querying in SQL,
- Data cleaning and transformation in SQL, R, and Pandas
- Model training and predictive analysis in Pandas, R, Excel, and PowerBI
- Data visualization with Excel, R, Pandas, PowerBI, and Tableau
- Proficient in Microsoft Office and Google Workspace Applications
- Experience with Azure, Databricks, and AWS Machine Learning UI's
- Proficient in HTML for webpage creation and markdowns

Employment History

Dornburg Lab, UNC Charlotte, NC

Data Analyst/Researcher January 2021 to Current

- Management and analysis of genomic and RNAseq data, bash and python scripting for job submission, custom package creation in R, statistical and phylogenetic comparative analyses.
- Major projects include a resolved phylogeny of the class Cephalopoda (master's thesis) and contributions to publications listed below.

AvidXchange, Charlotte, NC

BI Analyst Intern June 2023 – August 2023

- Identified key data requirements and developed and executed advanced SQL queries to ensure accurate and complete data retrieval.
- Designed and implemented visually compelling Power BI dashboards utilizing interactive filters and slicers including drill-through options to enable intuitive data exploration for client business reviews.

The Creators Law Firm, Charlotte, NC

Business Development Specialist January 2021 to January 2022

- Grew client base through excellence in client interactions, data driven execution of marketing strategies, and SEO optimization techniques.
- Documented proprietary sales process and best practices, built-out discovery call script, and identified opportunities for sales and marketing department improvements.

Trotter Finishes, Denver, NC

Owner, Business Manager June 2017 to December 2020

- Founded a subcontracting construction company specializing in fine wood finish in the commercial and residential sectors with growth rates of 100-150% in yearly revenue for 2 years.
- Managed marketing and social media coordination, generation of new accounts, estimating, accounts receivable and payable, payroll and bookkeeping, job scheduling, recruiting and hiring, shop management including inventory, purchasing, and staff management, and all client communication, care, and retention.

Education

- MS Bioinformatics, **University of North Carolina Charlotte**, Charlotte, NC; December 2023
- BS in Psychology, **Appalachian State University**, Boone, NC; May of 2012

Publications

2022. Ella B. Yoder, Elyse Parker, Alexandra Tew, Christopher D. Jones, Alex Dornburg; *Decoupled spectral tuning and eye size diversification patterns in an Antarctic adaptive radiation*. Preprint submitted to bioRxiv
<https://doi.org/10.1101/2022.09.28.509872> Manuscript submitted to **Journal of Evolution** (Impact factor: 3.742)

2022. Jeffrey Townsend, April D. Lamb, Hayley B. Hassler, Pratha Sah, Aia Alvarez Nishio, Cameron Nguyen, Alexandra Tew, Alison P. Galvani, Alex Dornburg; *Projecting the seasonality of endemic COVID-19*. Preprint submitted to medRxiv
<https://doi.org/10.1101/2022.01.26.22269905> In review, **Jama Network Open** (Impact factor: 13.35)