

# Regan Conrad

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## WORK EXPERIENCE

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### Boston University

2020 – 2025

*PhD Researcher, Bioinformatics* | 2020 – 2025

*Boston, MA*

- Conducted translational bioinformatics research to investigate epithelial and immune alterations associated with lung squamous premalignant lesions and airway field-of-injury biology across 38 subjects.
- Wrote and edited manuscript sections, methods text, and figure captions for collaborative research projects.
- Produced publication-quality figures and tables using R/ggplot2, ComplexHeatmap, BioRender, and Adobe Illustrator for clinical and research audiences.
- Prepared plain-language summaries, slide briefs, and poster materials for multidisciplinary audiences; presented a poster at the annual meeting for the American Association for Cancer Research (AACR).
- Standardized figure templates and documentation practices to improve reproducibility and continuity across project materials.
- Conducted literature checks to contextualize epithelial and immune programs and strengthen interpretation of translational genomics findings.

*Graduate Teaching Fellow* | Spring 2023

- Mentored 18 students across 4 multi-week projects on structuring results, presenting methods clearly, and designing readable figures; provided editorial feedback and grading rubrics.

### Clark University

2017 – 2020

*Research Assistant*

*Worcester, MA*

- Designed/documented an image-processing workflow (MATLAB, ImageJ) for *D. melanogaster*; wrote methods/figure text, processed 60+ microscopy images, and supported 2 publications plus 1 international talk.

## EDUCATION

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### Boston University

2025

*Doctor of Philosophy, Bioinformatics*

*Boston, MA*

### Clark University

*Master of Science, Biology*

2020

*Bachelor of Arts, Major in Biology, Minor in Mathematics, Concentration in Mathematical Biology and Bioinformatics*

2019

## SELECTED PUBLICATIONS & PRESENTATIONS

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- **Conrad, RD**, et al. Distinct basal cell phenotypes are associated with histology in premalignant lesions and the normal-appearing airway. *Manuscript in preparation*.
- Zheng, Y, **Conrad, RD**, Green, EJ, Burks, EJ, Betke, M, Beane, JE, Kolachalama, VB. 2024. Graph attention-based fusion of pathology images and gene expression for prediction of cancer survival. *IEEE Transactions on Medical Imaging*, doi: 10.1109/TMI.2024.3386108.
- *Poster Presentation*, “Single-cell Characterization of Airway Field Alterations in Patients with Lung Squamous Premalignant Lesions,” American Association for Cancer Research, Chicago, 29 April 2025.

## SKILLS

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- **Writing & Editing:** Manuscripts, figure captions, supplemental materials, slide decks, posters, plain-language summaries, literature synthesis
- **Visualization & Design:** R (ggplot2, ComplexHeatmap), Adobe Illustrator, Microsoft PowerPoint, BioRender
- **Collaboration & Process:** Cross-functional reviews, documentation/SOPs, Notion/Trello, Microsoft 365, Zotero