

# RESEARCH ME THIS

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## Professional Profile

- Self-sufficient, meticulous and quick at learning laboratory techniques.
- Exerts considerable effort to produce quality results in the laboratory and computer analysis of data.
- Logical thinker capable of problem solving in a laboratory setting through years of laboratory experience in the biochemical curriculum.

### *Laboratory Techniques obtained from Classwork*

- |                        |                                    |                             |
|------------------------|------------------------------------|-----------------------------|
| • Sterile Technique    | • Recombinant Plasmid Construction | • Fluorescence Microscopy   |
| • Media Preparation    | • Cell Transfection                | • Restriction Enzyme Digest |
| • Cell Culture Plating | • ELISA Assay                      |                             |
| • Gel Electrophoresis  | • Western Blot                     |                             |
| • PCR                  |                                    |                             |

### *Computer Literacy*

- |                                       |                              |                                   |
|---------------------------------------|------------------------------|-----------------------------------|
| • Windows and Linux Operating Systems | • Internet Explorer, Firefox | • MATLAB, Origin, ImageJ, LabView |
| • MS Office 2003, 2010                |                              |                                   |

## Education

Colorado State University

Fort Collins, CO

GPA: 3.3

Bachelors of Science: *Biochemistry*

Graduated: December 2011

*Senior Thesis Project for Department of Biochemistry & Molecular Biology*

- DNA-Based Computing

## Relevant Professional Experience

Colorado State University, Fort Collins, CO

*July 2011-Present*

*Research Assistant in the Krapf Research Lab*

- Organization of research data files on shared networks and external hardware devices.
- Designing and building an enclosure for the laboratory infrared laser system.
- Determining Multiple Target Tracking Algorithm parameters for GFP tagged Kv2.1 channels in the MATLAB program and preparing algorithm data through Origin graphing, ImageJ, and LabView programs.

## Co-Authored Publications

- Cortical Actin Modulates Trafficking of the Kv2.1 Channel to the Cell Surface  
A. V. Weigel, K. Ecklund, M. M. Tamkun, D. Krapf
- Rapid Cell Surface Kv2.1 Recycling Observed by Single Molecule Tracking  
A. V. Weigel, K. Ecklund, M. M. Tamkun, D. Krapf

## Additional Professional Experience

CSU Health Center Student Custodial

*February 2010-December 2011*

- Laboratory and procedure room maintenance.
- In house training for biohazard waste disposal and blood borne pathogens.