

# Malcolm Groves

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## PROJECTS

### Handwritten Digit Recognition (C++)

GitHub

*A nature-inspired genetic algorithm / neural network hybrid*

- Achieves >93% accuracy after compressing images to 32-symbol strings.
- Outperforms a simple neural network by >10% with ¼ the number of nodes.

### Chess (Ruby)

GitHub

*Two-player terminal chess*

- Select pieces with the arrow keys and highlight valid moves.
- DRY logic enabled by OOD with piece type inheritance and a move module.

### Buck Tagger (Ruby on Rails, Javascript)

Live • GitHub

*A social network for hunters*

- Include information
- \*here\*

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**Languages:** Java, C++, JavaScript, HTML, CSS, SQL, Python, MatLab

**Frameworks & Technologies:** Ruby on Rails, git, AJAX, jQuery

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## EXPERIENCE

### Dublin School (Chemistry Teacher, Coach)

Sept 2017 -

Present

- Created an AP Chemistry curriculum in accordance with College Board standards.
- Incorporated modern chemistry research topics into the course.

### Bowdoin College (Student Researcher)

Jan 2016 - May

2017

- Reviewed scientific literature and prepared weekly presentations.
- Developed MatLab programs for results visualization, signal deconvolution, and regression analysis of steady-state systems.

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## EDUCATION

### Bowdoin College (B.A. in Chemistry)

GPA: 3.84 / 4.00

- Phi Beta Kappa, Dean's List (2014-17), Academic All-American (2014-17)
- NCAA Division I Nordic Ski Team captain 2015-16 & 2016-17, top male Bowdoin skier 2016-2017

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## INTERESTS

- Current [record](#) holder on the 18 mile NH Presi Traverse
- Climbed the 67 peaks above 4000 feet in New England

- Snow sports, chopping wood, camping