

# CHRISTINE LIEBE

8609 Willows Place, Parker, CO 80134 | 970.274.6688 | clynnliebe@gmail.com

## Skills Summary

Educational research, Education Professor, K-12 Licensed Teacher (Elementary, Science, Language Arts), Online course design, Curriculum Alignment, Assessment evaluation and development, Learning Disabilities Curriculum Consultant, Computer Science / STEM Educator, Data and analytical experience in Excel – SQL – SPSS – Nvivo – R - Python

## Education

**PhD Education: Curriculum, Instruction, Assessment / April 2019**

**Walden University**

**MS Education: Literacy / August 2008**

**Walden University**

**BS Psychology & Urban Policy / June 1989**

**James Madison College in Michigan State University**

## Teaching Experience

### **Douglas County**

*K-12 Substitute Teacher / January 2019 to present*

Assisting in elementary through high school classrooms substituting for classroom teachers.

### **Colorado Mountain College**

*Adjunct Professor / March 2009 to present*

Teaching and designing introductory education and introductory computer science courses (Blackboard and Canvas). Taught EDU 222, Effective Education, required for all CMC faculty. Taught developmental education literacy, advanced ELL, and high school equivalency courses. Provided in person and online faculty development related to learning disabilities and open educational resources. Served on curriculum committees.

### **Aspen High School**

*Literacy Specialist / August 2012 – June 2013*

Designed and taught reading and writing support classes for high school students. Supported staff with instructional suggestions and modifications for literacy-challenged students. Proctored and managed student literacy assessments and data.

### **Glenwood Springs Middle School**

*Science Teacher / August 2008 – June 2009*

Taught science, math, and technology integrated in 7<sup>th</sup> grade Life and Earth Sciences. Supervised yearbook staff. Served as liaison with the English language teachers and 7<sup>th</sup> grade faculty. Developed data-driven math assessments with faculty teams then tracked student schedules for all 7<sup>th</sup> grade math and language arts.

## **Research & Administrative Experience**

### **Colorado School of Mines / Lotus Education LLC**

*Educational Researcher / September 2018 to present*

Co-author and co-PI on four NSF grant proposals investigating K-12 and undergraduate computer science topics. Responsible for proposal research, writing, evaluation, and submission.

### **Colorado Mountain College**

*Curriculum Coordinator / January 2010 – June 2013*

Programmed courses, led and facilitated meetings, trained staff and faculty, wrote grants, approved syllabi, supervised student registration and orientation. Served on curriculum alignment committees, Analyzed student trends and suggested responsive marketing strategies. Promoted developmental education in the community.

### **Colorado Mountain College**

*Special Needs Learning Coordinator / July 2011 to June 2015*

Provided curriculum support for instructors teaching students with learning disabilities. Trained faculty, staff, and community members to begin offering accommodations (not modifications) for learning disabilities.

### **Lotus Education Institute**

*CEO – Founder / June 2013 to present*

Founded and designed a private occupational school offering a 500-hour Professional Massage Therapy Certification program (in person and hybrid using Canvas). Designed and maintain website and marketing efforts. Manage accounting, recruiting, enrollment, financial aid, and teacher training. Teaching massage therapy techniques, anatomy, physiology, pathology, business, and ethics. Licensed and bonded.

### **National Science Foundation**

*AISL Review Panelist / January 2019*

Served as a reviewer with a national team and evaluated Advancing Informal STEM Learning (AISL) program proposals.

### **STARS Computing Corps.**

*Evaluation Assistant / August 2014 to August 2015*

Provided data collection and analysis for computer science recruiting and teaching.

## **Awards and Acknowledgements**

### **Don E. Ackerman Fellowship / Walden University**

The Don E. Ackerman Research Fellowship in Educational Leadership supports research that advances leadership in education through better understanding or practice.

### **Summit Award 2011 / Colorado Mountain College**

Special recognition for contributions towards developmental education.

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## **Publications / Presentations**

Liebe, C. (2017, March). Comparison of Abstraction in Computer Coding and in Critical Thinking. In *Society for Information Technology & Teacher Education International Conference* (pp. 1394-1402). Association for the Advancement of Computing in Education (AACE).

### **Computer Science Teachers Association (CSTA) Conference**

*Instruction of Abstraction in K-12 Computer Science / July 2017*

### **National Accuplacer Conference – The College Board**

*Critical Literacy Acquisition and Accuplacer Success / June 2011*

### **Colorado Adult Educator and Professionals Association (CAEPA)**

*ESL Students and Learning Disabilities / October 2010*

### **Colorado Teachers of English to Speakers of Other Languages (COTESOL)**

*Adult ELL's and Critical Literacy Acquisition / November 2011*

### **International Asian TESOL Conference – Cebu, Philippines**

*Adult ELL's and Critical Literacy Acquisition / August 2011*

## **Academic Interests**

Computational thinking, K-12 Computer Science curriculum alignment

Abstraction and critical thinking in computer science education

Language acquisition and critical thinking

Comparison of learning language and learning computer science

High school and college retention

## **Life Experience**

Single mother of a 22-year-old daughter and an 18-year-old son

Immigrant in Switzerland for 6 years, speak conversational German

Raft guide in Vail, CO

Skied Mt. Blanc and many other backcountry peaks

Climb / lead 5.9 ish