

Donna F Louie, PhD
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Educational Background

- **PhD in Biochemistry, 1993**
University of Health Science Center at San Antonio, San Antonio, TX
- **BS in Chemistry, 1987**
New Mexico State University, Las Cruces, New Mexico

Academic Employment History

- **Instructor for Libby RAP: Fall 2010-Present**
IPHY 2420 Nutrition for Health and Performance
(Fall 2011; Spring and Fall 2012 to Spring and Fall 2017; Spring and Fall 2018;
Spring and Fall 2019; Spring and Fall 2020)
IPHY 3420 Nutrition (Spring 2011 semester)
- **Instructor for Baker RAP: Fall 2019-Present**
IPHY 2420 Nutrition for Health and Performance
(Spring and Fall 2020)
- **Instructor for Sewall RAP: Fall 2019-Present**
IPHY 2420 Nutrition for Health and Performance
(Spring and Fall 2020)
- **Lecturer for Baker RAP: Fall 2004-Spring 2019**
IPHY 2420 Nutrition for Health and Performance
(Fall 2011, Spring and Fall 2012 to Spring and Fall 2017; Spring and Fall 2018)
IPHY 3420 Nutrition (7 semesters)
EBIO 1210 Biology I (5 semesters)
EBIO 1220 Biology II (3.5 semesters)
- **Lecturer for Sewall RAP: Spring 2012- Spring 2019**
IPHY 2420 Nutrition (Spring 2012, Spring and Fall 2013 semesters; Fall 2014
semester; Fall 2015 semester; Fall 2016; Fall 2017; Spring and Fall 2018; Spring 2019)
- **Lecturer for Communication RAP: Fall 2011-Spring 2014**
IPHY 2420 (Fall 2011 semester; Spring 2014)
- **Lecturer for Global Studies RAP: Fall 2012**
IPHY 2420 (Fall 2012)
- **Presenter at the Summer Orientation for the Health Professions RAP (June-August, 2012)**
 - gave an overview of a RAP and advised students about classes and college in general
- **Lecturer for Libby RAP: Spring 2009-Spring 2010**
IPHY 3420 (3 semesters)
- **Postdoctoral Research Associate, 1994-1998**
Biochemistry Department, Howard Hughes Medical Institute, University
of Colorado, Boulder, CO (Dr Natalie Ahn)
- **Postdoctoral Fellow, 1993-1994**
Biochemistry Department, University of Health Science Center at San Antonio, San
Antonio, TX (Dr Philip Serwer)

Research Publications during Postdoctoral Research and Graduate School

Patent

1. **Louie DF**, U.S. Patent No. 07/523,766: "High Molecular Weight DNA Compositions for Use in Electrophoresis of Large Nucleic Acids, November 10, 1992.

Authored Publications

1. **Louie D** and Serwer P. A Hybrid Mode of Rotating Gel Electrophoresis for Separating Linear and Circular Duplex DNA. *Appl. And Theor. Electrophor.* 1989; 1: 169-173.
2. **Louie D** and Serwer P. Blunt-ended Ligation Can Be Used to Produce DNA Ladders with Rung Spacing as Large as 0.17 Mb. *Nucleic Acids Res.* 1990; 18: 3090.
3. **Louie D** and Serwer P. Effects of Temperature on Excluded Volume-promoted Cyclization and Concatamerization of Cohesive-ended DNA Longer than 0.04 Mb. *Nucleic Acids Res.* 1991; 19: 3047-3054.
4. Serwer P, **Louie D**, Hayes SJ, Griess GA (1991). Overcoming the Limitations of Gel Electrophoresis: Fractionation of 0.05-0.29 Mb Open Circular DNA. In (Cantor CR, Lim HA, eds.) *Electrophoresis, Supercomputing and the Human Genome. World Scientific*, Singapore. p. 230-234.
5. **Louie D** and Serwer P (Abstract). Effects of Excluded Volume on the Condensation and Cohesive-ended Joining of Bacteriophage Lambda DNA. *Biophysical J.* 1992; 61: A363.
6. **Louie DF**, Resing KA, Lewis TS, et al. Mass Spectrometric Analysis of 40 S Ribosomal Proteins from Rat-1 Fibroblasts. *J Biol Chem* (United States) 1996; 271(45): 28189-98.
7. McCarthy DL, **Louie DF**, Copley SD. Identification of a Covalent Intermediate between Glutathione and Cysteine 13 Formed during Catalysis of Tetrachlorohydroquinone Dehalogenase. *J. Am. Chem. Soc.* 1997; 119: 11337-11338.
8. **Louie DF**, Gloor, KK, Galasinski SC, et al. Phosphorylation and Subcellular Redistribution of High Mobility Group Proteins 14 and 17, Analyzed by Mass Spectrometry. *Protein Science* 2000; 9:170-179.
9. Timothy SL, Hunt, JB, Aveline LD, Jonscher KR, **Louie DF**, Yeh JM, Nahreini TS, Resing KA, Ahn NG, Identification of Novel MAP Kinase Pathway Signaling Targets by Functional Proteomics and Mass Spectrometry. *Molecular Cell* 2000; 6: 1343-1354.

Instructional Teaching Services

- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2020**
 - **Mentor** for Sophie Choubai to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2020**
 - **Mentor** for Kelsey Shaver to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2020**
 - **Mentor** for Lindsay Eversole to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2020**
 - **Mentor** for Mackenzie Albrecht to teaching nutrition
- **Honor Thesis Advisor for Chelsea Martin, Fall 2019 – Fall 2020**
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2019**
 - **Mentor** for Amanda Brown to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2019**
 - **Mentor** for Ashlyn Fleming to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2019**
 - **Mentor** for Alexandra Martin to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2019**

- **Mentor** for Amanda Brown to teaching nutrition
- **IPHY 4930: 1-Credit Internship in Integrative Physiology, Fall 2018**
 - **Faculty Sponsor** for Emilee Gower's internship at the Avanti Therapy to learn how exercise can help cancer patients recover from treatments and interact with cancer patients
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2018**
 - **Mentor** for Sonya Livitz to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2018**
 - **Mentor** for Tessa Riehman-Bryan to teaching nutrition
- **IPHY 3010: 1-Credit Undergraduate Teaching in Integrative Physiology, Spring 2018**
 - **Mentor** for Samantha Walisundra to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2017**
 - **Mentor** for Samantha Walisundra to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2017**
 - **Mentor** for Mary Lynch to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2017**
 - **Mentor** for Sonya Livitz to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2017**
 - **Mentor** for Samantha Walisundra to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2017**
 - **Mentor** for Mary Lych to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2016**
 - **Mentor** for Samantha Walisundra to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2016**
 - **Mentor** for Heather O'Reilly to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2016**
 - **Mentor** for Mary Lynch to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2015**
 - **Mentor** for Heather O'Reilly to teaching nutrition
- **On Connor Andrew Folkerth Honor Thesis Committee, Fall 2013- Spring 2015**
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2015**
 - **Mentor** for Annie Chung to teaching nutrition
- **IPHY 4860: 3-Credit Independent Study, Spring 2015**
 - **Faculty Sponsor** for Caitlin Kraft's Independent Study at the Creekside Elementary School to teach nutrition at an afterschool program and at the Neuroscience Outreach Program, where she was the project coordinator
- **IPHY 4860: 1-Credit Independent Study, Spring 2015**
 - **Faculty Sponsor** for Emily Cohn's Independent Study to write a research paper on the adverse effects of meat-based diet and benefits of plant-based diet
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2014**
 - **Mentor** Heather O'Reilly to teaching nutrition
- **IPHY 4860: 3-Credit Independent Study, Spring 2014**
 - **Faculty Sponsor** for Caitlin Kraft's Independent Study at the Boulder Community School of Integrated Studies to teach nutrition to two fourth grade classes
- **IPHY 4939: 4-Credit Internship, Spring 2014**
 - **Faculty Sponsor** for Kelsey Proctor's Internship at the Spinal Cord Injury Recovery Project to learn how to help paraplegic and quadriplegic with their exercises
- **IPHY 4860: 3-Credit Independent Study, Spring 2014**

- **Faculty Sponsor** for Tiana Lavin's Independent Study at the Women, Child, and Infant Agency to determine the frequency of breastfeeding among low-income families
- **IPHY 2910: 1-Practicum in Integrative Physiology, Spring 2014**
 - **Faculty Sponsor** for Tiana Lavin's internship at the Women, Child, and Infant Agency to shadow a registered dietician
- **IPHY 4930: 5-Credit Internship, Summer 2013**
 - **Faculty Sponsor** for Lauren Daily's internship at the PEAK Center at the Craig's Hospital to learn how to help paraplegic and quadriplegic with their exercises
- **IPHY 4930: 2-Credit Internship, Fall 2010,**
 - **Faculty Sponsor** for Clara Hunt's Internship at Essential Nutrition to assist a registered dietician with clients and designing a nutrition website for children
- **Faculty Cosponsor, Fall 2010,** for Marcee Lee's Independent Studies and UROP Grant, Department of Ethnic Studies

Teaching Accomplishments

- **Selected to be on the Honor Code Advisory Board, with an honorarium, Fall 2018-Spring 2019:** to evaluate student violations of honor code
- **Invited Speaker for Dr Christina Nelson's Class, DNCE 2005, Injury Prevention, with an honorarium, March 14, 2019:** to teach dance students the basic nutrition for athletes
- **Invited Speaker for Dr Nada Diachenko's Class, DNCE 2005, Injury Prevention, with an honorarium, April 17 and 19, 2017:** to teach dance students the basic nutrition for athletes
- **Invited as a Pearson Publisher's Faculty Advisory Board with an honorarium, November 28, 2016:** to review the development of autograded, personalized diet analysis activities using MyDietAnalysis program
- **Invited Speaker for Dr Nada Diachenko's Class, DNCE 2005, Injury Prevention, with an honorarium, April 11 and 13, 2016:** to teach dance students the basic nutrition for athletes
- **Invited to attend the Pearson Introductory Nutrition Forum in San Francisco with an honorarium from March 4-5, 2016:** a by-invitation-only meeting; to share teaching challenges and experiences and evaluate their current and future products at the Pearson Publisher Headquarter in San Francisco
- **Invited to be in a McGraw Hill's Focus Group with an honorarium, March 5-6, 2015:** at the Life Sciences Regional Event on Developing Teaching Excellence to Improve Student Retention and Success at the Brown Palace Hotel in Denver, CO, to review their *Smartbook* and other Connect educational softwares
- **Reviewer with an honorarium, August 3, 2015:** to review *Chapter 21: Nutrition and the Aging Adult: Live Long and Prosper; Can you eat your way to a longer, healthier life?* of the new nutrition textbook: *Scientific American Nutrition for a Changing World*, Scientific American and W.H. Freeman publishers
- **Reviewer with an honorarium, January 23, 2015:** to review *the Online Diet Analysis Activities* of the new nutrition textbook: *Scientific American Nutrition for a Changing World*, Scientific American and W.H. Freeman publishers
- **Reviewer with an honorarium, October 17, 2014:** to review *Chapter 19: The College Years, Determinant of Eating Behavior, Alcohol, Disordered Eating- How Food Choices Are Influenced by Social Norms* of the new nutrition textbook: *Scientific American Nutrition for a Changing World*, Scientific American and W.H. Freeman publishers
- **Reviewer with an honorarium, May 9, 2014:** to review *Chapter 6- The Lipids: The skinny on fat* of the new nutrition textbook: *Scientific American Nutrition for a Changing World*, Scientific American and W.H. Freeman publishers

- **Invited to be in a WH Freeman's Focus Group at New Orleans with an honorarium, February 21-22, 2014:** to review the new nutrition textbook: *Scientific American Nutrition for a Changing World*, Scientific American and W.H. Freeman publishers
- **Reviewer with an honorarium, January 18, 2013:** to review the table of contents for the new nutrition textbook: *Scientific American Nutrition for a Changing World*, Scientific American and W.H. Freeman publishers
- **Reviewer with an honorarium, April 13, 2012:** to review Two Chapters of *Contemporary Nutrition: A Functional Approach*, 4th Edition by Wardlaw/Smith/Collene
- **Invited Participant with an honorarium, March 26, 2012** in a Nutrition Coverage Survey project for W.H. Freeman Publishers and Scientific American to bring out a new type of introductory level nutrition book
- **Participant with an honorarium, Spring 2012** at the FTEP Assessment Institute on Achieving Course Goals: Gathering Evidence About Student Learning for three days: January, 12 and 13; May, 17, 2012

Interviews for News Websites

- **Multimedia Article by CU Independent** on smoking ban at CU, February 5, 2013
- **Feature Article in CU-Boulder Today** about my class, IPHY 2420, November 15, 2012

Other Teaching Experiences

- **Colorado Virtual Academy Homeschool teacher** for my daughter, Fall 2008- Summer 2010; Fall 2011 – August 2012
- **Arts/crafts teacher** for Rocky Mountain Chinese School, 2003-2005
- **Volunteer lecturer** at Bear Creek Elementary School, 1998-2007
- **Substitute teacher** for Dr. Beth Bennett in EBIO 1210, Continued Education, University of Colorado, 1996-2000; 2004
- **Trainer** for undergraduate, graduate students, and technicians in laboratory research during graduate school and postdoctoral training, 1989-1998
- **Teaching assistant and tutor** in biochemistry during graduate school, 1988-1990

Community Service Activities

- **President, (2006-2008), volunteer**
Rocky Mountain Chinese School, nonprofit organization, Boulder, CO
- **Principal, (2005-2006), volunteer**
Rocky Mountain Chinese School, nonprofit organization, Boulder, CO
- **Vice Principal, (2004-2005), volunteer**
Rocky Mountain Chinese School, nonprofit organization, Boulder, CO
- **Science Fair Judge (1999-2007), volunteer**
Bear Creek Elementary School, Boulder, CO

References

Dr. Cecilia Pang, Director of Libby Residential Academic Program, University of Colorado, 303-735-4211, Cecilia.Pang@Colorado.edu

Dr. Eric Stade, Director of Sewall Residential Academic Program, University of Colorado, 303-492-6004, Eric.Stade@colorado.edu

Dr. Herbert Covert, Director for Baker Residential Academic Program, University of Colorado, 303-492-3188, Michael.Breed@colorado.edu