

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

- **Associate Teaching Professor for the Arts & Sciences RAP: Fall 2023 - Present**
IPHY 2420 Introduction to Nutrition (Fall & Spring semesters)
- **Associate Teaching Professor for the Creative Minds RAP: Fall 2022-Spring 2023**
IPHY 2420 Introduction to Nutrition
- **Associate Teaching Professor for the Environmental and Sciences RAP: Fall 2022- Spring 2023**
IPHY 2420 Introduction to Nutrition
- **Associate Teaching Professor for the Stories and Societies RAP: Fall 2022- Spring 2023**
IPHY 2420 Introduction to Nutrition
- **Instructor for Libby RAP: Fall 2010-Spring 2022**
IPHY 2420 Introduction to Nutrition
(Fall 2020 to Spring, Fall 2021 to Spring 2022)
IPHY 2420 Nutrition for Health and Performance
(Fall 2011; Spring and Fall 2012 to Spring and Fall 2019; Spring 2020)
IPHY 3420 Nutrition for Health and Performance (Spring 2011 semester)
- **Instructor for Baker RAP: Fall 2019-Spring 2022**
IPHY 2420 Introduction to Nutrition
(Fall 2020 to Spring, Fall 2021 to Spring 2022)
IPHY 2420 Nutrition for Health and Performance
(Spring 2020)
- **Instructor for Sewall RAP: Fall 2019-Spring 2022**
IPHY 2420 Introduction to Nutrition
(Fall 2020 to Spring, Fall 2021 to Spring 2022)
IPHY 2420 Nutrition for Health and Performance
(Spring 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)

Leadership

- **Associate Director, Fall 2022 – Spring 2023 (July 2022 – May 2023)**

oversaw and sometimes coordinated CM events, like Welcoming Day, the monthly DEI events and the Celebration of the Arts; enrolled students, set-up classroom, performed office administration and finance; set-up/led faculty meetings; created a faculty dossier; coordinated faculty peer-observations; interviewed and hired a program coordinator and student coordinators; coordinated faculty social events; and managed front office when staff was not available.

Instructional Teaching Services

- **2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2024**
 - **Mentor** for Kelsey Yang to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2024**
 - **Mentor** for Natalia Audimoolam to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2024**
 - **Mentor** for Morgan McGraw to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2024**
 - **Mentor** for Kelsey Yang to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2024**
 - **Mentor** for Natalia Audimoolam to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2024**
 - **Mentor** for Morgan McGraw to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2023**
 - **Mentor** for Gigi Gotzmer to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2023**
 - **Mentor** for Kelsey Yang to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2023**
 - **Mentor** for Tova Burton to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2023**
 - **Mentor** for Kiran Thiara to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2023**
 - **Mentor** for Olivia Lawrence to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2023**
 - **Mentor** for Kiera Fisher to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2023**
 - **Mentor** for Kelly Janetzko to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2023**
 - **Mentor** for Kiran Thiara to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2022**
 - **Mentor** for Kelly Janetzko to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2022**
 - **Mentor** for Kate Staiert to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2022**
 - **Mentor** for Kiran Thiara to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2022**
 - **Mentor** for Natalie Gould to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2022**
 - **Mentor** for Kate Staiert to teaching nutrition
- **2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2022**

- **Mentor** for Amy Jeacock to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2021**
 - **Mentor** for Sophie Choubai to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2021**
 - **Mentor** for Melissa Mcevoy to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2021**
 - **Mentor** for Natalie Gould to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Fall 2021**
 - **Mentor** for Amy Jeacock to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2021**
 - **Mentor** for Sophie Choubai to teaching nutrition
- **IPHY 3010: 2-Credit Undergraduate Teaching in Integrative Physiology, Spring 2021**
 - **Mentor** for Kelsey Shaver to teaching nutrition
- **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 dietitian
- **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 dietitian 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

- **Invited to Chi Omega Professor Appreciation on October 2, 2024** by my four students: Weezie Dinnhaupt, Kylie Kroll, Meredith Wood, and Millicent Critchfield
- **Invited to be a presenter and presented a poster, titled *Active Learning in Small-Sized RAP Science Courses Improves Student Satisfaction And May Promote Retention*, at the NSF-funded Active Learning Symposium on May 15, 2024 at the University of Colorado, Boulder; also attended the symposium for professional development about active learning**
- **Invited to conduct an interview about Learning by Design by Holly Fortener, with an honorarium, August 10, 2023 to assess the use of active learning techniques learned from the Active Learning Academy Program**
- **Invited to Chi Omega Professor Appreciation on November 7, 2023 by my student, Grace Wynne**
- **Invited as a Pearson Publisher Pre-Revision Reviewer for the *Nutrition: An Applied Approach, 4th ed*, by Thompson & Manore, with an honorarium, April 24th 2023 to review the textbook, eText, and the online education platform, Mastering**
- **Selected to be on the Faculty Learning Community and A & S RAP Quality Teaching Initiative Task Force, with an honorarium, Spring 2023 to evaluate and create a set of DEI guidelines/objectives for the RAP faculty and students**

- **Selected to be on the ASSETT's Active Learning Academy Program, Peer Mentor, with an honorarium, Spring 2022:** to apply the researched based instructional strategies to my course and learn to use the COPUS evaluation method
- **Selected to be on the ASSETT's Active Learning Academy Program, Learning by Design, with an honorarium, Fall 2022** to learn researched based instructional strategies to improve students learning
- **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

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. 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.
2. **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.
3. 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.
4. **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.
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. 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.
7. **Louie D** and Serwer P. Effects of Temperature on Excluded Volume-promoted Cyclization and Concatemerization of Cohesive-ended DNA Longer than 0.04 Mb. *Nucleic Acids Res.* 1991; 19: 3047-3054.
8. **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.
9. **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.

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