Carolina R. Cawthon, PhD, RDN, LD

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EDUCATION AND TRAINING

Florida State University, Postdoctoral Fellow Sep 2020 — Jan 2024 NIH Chemosensory Training Grant Appointee (NIH T32 DC000044) 2020 - 2023The University of Georgia, Ph D. Foods and Nutrition May 2020 The University of Georgia, Dietetic Internship (1200 hours supervised practice) Aug 2015 - Aug 2017

APPOINTMENTS and RESEARCH EXPERIENCE

Department of Nutrition, University of Tennessee-Knoxville Assistant Professor

Aug 2024 —

May 2015

Department of Psychology, Program in Neuroscience, Florida State University

Sep 2020 — July 2024

Spector Lab, Principal Investigator: Alan C. Spector

My role: Research Faculty I, Feb 2024 - present; Postdoc Sep 2020 - Jan 2024

The University of Georgia, Bachelor of Science, Dietetics major; Biochemistry minor

- Design, conduct, and disseminate results of taste- and ingestive behavior-related behavioral experiments in rats
- Technical skills include operation of gustometers, Davis rigs, 5-item Food Choice Monitor, analysis of continuously monitored food-intake data, gustatory nerve transection

Department of Nutritional Sciences, University of Georgia

2015 - 2020

Gastrointestinal Neurophysiology Lab, Principal Investigator: Claire B. de La Serre

My role: Graduate Student

 Designed, conducted, and disseminated results of experiments investigating microbiota-gut-brain signaling, specifically bacterial signaling to vagal afferent neurons

Department of Biochemistry & Molecular Biology, University of Georgia

2014 - 2015

Wood Lab, Principal Investigator: Zachary A. Wood

My role: Undergraduate Researcher

• Studied enzyme structure, kinetics using an in vitro model of wild-type and mutant UDP-glucose dehydrogenase

RESEARCH SUPPORT

Current Grants R21DC021498 Early Career Research Award \$125,000/year direct costs

Jan 2024 - Dec 2026

TEACHING

Department of Nutritional Sciences, University of Georgia

Instructor of Record, FDNS 2100 Human Nutrition and Food Guest Lecturer, FDNS 4620/6620 Management of Foodservice Organizations Teaching Assistant, FDNS 4500/6500 Medical Nutrition Therapy I

Spring 2020 Spring 2018, Spring 2020

Fall 2017, Fall 2018, Fall 2019

Teaching Assistant, FDNS 4520/6520 Clinical Nutrition Interventions

Spring 2019

Spring 2018

Teaching Assistant, FDNS 4570/6570 Inherited Metabolic Disorders

PUBLICATIONS

Peer-Reviewed Journal Articles (*denotes co-first authors)

- **CR Cawthon**, GD Blonde, AC Spector. Lingual taste nerve transection alters food selection, macronutrient intake, and meal patterns in rats consuming a cafeteria diet without changing total energy intake. *eNeuro 2024;11(3)*.
- **CR Cawthon**, AC Spector. The nature of available food choices affects intake and meal patterns of rats offered a palatable cafeteria-style diet. *Nutrients* 2023;15 (24):5093.
- **CR Cawthon**, GD Blonde, V Nisi, HM Bloomston, B Krubitski CW le Roux, AC Spector. Chronic semaglutide treatment in rats leads to daily excessive concentration-dependent sucrose intake. *J Endocr Soc* 2023.
- JS Kim, KC Williams, RA Kirkland, R Schade, KG Freeman, **CR Cawthon**, AW Rautmann, JM Smith, GL Edwards, TC Glenn, PV Holmes, G de Lartigue, CB de La Serre. The Gut-Brain Axis Mediates Bacterial Driven Modulation of Reward Signaling. *Molec Metab* 2023.
- **CR Cawthon**, CB de La Serre. The critical role of CCK in the regulation of food intake and diet-induced obesity. *Peptides* 2021; 170492.
- **CR Cawthon**, RA Kirkland, S Pandya, N Brinson, CB de La Serre. Non-neuronal crosstalk promotes an inflammatory response in nodose ganglia cultures after exposure to byproducts from gram positive, high-fat-diet-associated gut bacteria. *Physiol Behav* 2020; 113124.
- JS Kim, RA Kirkland, SH Lee, **CR Cawthon**, KW Rzepka, DM Minaya, G de lartigue, K Czaja, CB de La Serre. Gut microbiota composition modulates inflammation and structure of the vagal afferent pathway. *Physiol Behav* 2020; 113082.
- EA Klingbeil*, **CR Cawthon***, RA Kirkland, CB de La Serre. Potato-resistant starch supplementation improves microbiota dysbiosis, inflammation, and gut-brain signaling in high fat-fed rats. *Nutrients* 2019;11(11):2710.
- CR Cawthon, CB de La Serre. Gut bacteria interaction with vagal afferents. Brain Res 2018;1693B:134-9.
- T Sen, **CR Cawthon**, BT Ihde, A Hajnal, PM DiLorenzo, CB de La Serre, K Czaja. Diet-driven microbiota dysbiosis is associated with vagal remodeling and obesity. *Physiol Behav* 2017;173:305-17.

Manuscripts in preparation

- **CR Cawthon,** GD Blonde, AC Spector. The effects of octreotide on gut hormones and food intake in rats after gastric bypass surgery. *Manuscript in preparation*.
- **CR Cawthon**, AC Spector. The effects of semaglutide on lean and DIO rats offered a cafeteria diet and sucrose. *Manuscript in preparation*.

Instructional Materials

AC Berg, **CR Cawthon**, D Everson. C.O.R.E. (Confidence Ownership Responsibility and Exercise) Parent nutrition education curriculum. 2016.

Popular Press and Web Publications

- AC Berg, **CR Cawthon**. Senior Sense Quarterly Newsletter: Eggs are back! The new Dietary Guidelines for Americans. Web page, print, 2016. 24, No. 1, 4-5. Retrieved from http://www.fcs.uga.edu/news/tag/senior+sense
- AC Berg, **CR Cawthon**. Nutrition for 4-H Foods Projects: Recipe selection and menus. 2015. Retrieved from http://www.georgia4h.org/foodsandnutrition/nutrition.htm
- AC Berg, **CR Cawthon**. Nutrition for 4-H Foods Projects: MyPlate. 2015. Retrieved from http://www.georgia4h.org/foodsandnutrition/nutrition.htm

- AC Berg, **CR Cawthon**. Nutrition for 4-H Foods Projects: Dairy foods project. 2015. Retrieved from http://www.georgia4h.org/foodsandnutrition/nutrition.htm
- AC Berg, **CR Cawthon**. Walk GA Blog: Staying on track through the holidays: Are we missing the point? 2015. UGA Extension. Retrieved from http://blog.extension.uga.edu/walkgeorgia/
- AC Berg, **CR Cawthon**. Senior Sense Quarterly Newsletter: Should I be worried about Vitamin D? Web page, print, 2015. 23, No. 4. Retrieved from http://www.fcs.uga.edu/docs/DBL_Vol_29_5.pdf

PRESENTATIONS

Original Research Presented at Professional Conferences (*denotes presenter)

CR Cawthon*, CN Boyle, AV Nisi, GD Blonde, B Krubitski, CW le Roux, TA Lutz, AC Spector. Octreotide treatment increases meal size of a palatable cafeteria diet but not of chow in female rats after Roux-en-Y gastric bypass. *Poster Presentation*.

Society for the Study of Ingestive Behavior, Chicago, Illinois

July 2024

CR Cawthon*, GD Blonde, VA Nisi, HM Bloomston, B Krubitski, CW le Roux, AC Spector. The Effects of Semaglutide on Meal Patterns in Rats Given Chow and Sucrose Solutions. *Oral Presentation*.

Society for the Study of Ingestive Behavior, Portland, Oregon

July 2023

CR Cawthon* and AC Spector. Combined Transection of the Glossopharyngeal and Chorda Tympani Nerves Alters Food Choice, Macronutrient Intake, and Meal Patterns in Male Rats. *Poster Presentation*.

Association for Chemoreception Sciences, Bonita Springs, Florida

April 2023

CR Cawthon*, GD Blonde, CW le Roux, AC Spector. The Effects of Semaglutide Treatment on Energy Intake, Sucrose Preference, and Body Weight Loss in Rats. *Oral Presentation*.

Society for the Study of Ingestive Behavior, Porto, Portugal

July 2022

CR Cawthon*, AC Spector. The Response of Rats to Cafeteria Diets is Influenced by Specific Food Choices and Varies Over Time. *Poster Presentation*.

Society for the Study of Ingestive Behavior, Porto, Portugal

July 2022

CR Cawthon*, RA Kirkland, EA Klingbeil, CB de La Serre. Microglia depletion in the nodose ganglion prevents high-fat diet induced hyperphagia in male Wistar rats. *Oral Presentation*.

Inaugural University of Georgia Obesity Initiative Symposium, Athens, Georgia Second Place, Best Oral Presentation

March 2020

CR Cawthon*, RA Kirkland, CB de La Serre. Glial cross-talk promotes inflammatory response in nodose ganglia culture after exposure to by-products from gram-positive, high-fat-diet-associated gut microbes. Poster Presentation.
 Society for the Study of Ingestive Behavior, Utrecht, Netherlands
 Best Poster Presentation Award Winner

EA Klingbeil*, **CR Cawthon**, RA Kirkland, CB de La Serre. Potato resistant starch supplementation improves microbiota dysbiosis, inflammation and vagal signaling in high fat fed rats.

Society for the Study of Ingestive Behavior, Bonita Springs, Florida

July 2018

CR Cawthon*, RA Kirkland, CB de La Serre. Metabolites from obesity-associated bacteria promote inflammation in cultured vagal afferent neurons. *Oral Presentation*

Society for the Study of Ingestive Behavior, Montreal, Quebec

July 2017

CR Cawthon*, NA Brinson, R Kirkland, CB de La Serre. Metabolites from obesity-associated bacteria promote inflammation of vagal afferent neurons. *Poster Presentation*

Georgia Nutrition Council Conference, Augusta, Georgia

March 2016

Student Research Presentations Overall First Place Award Winner

Other Presentations and Invited Seminars

CR Cawthon*. Food intake is an outcome of behavior: How it happens matters. *Invited seminar*.

University of Georgia, Department of Nutritional Sciences

August 2024

CR Cawthon*. Using Animal Studies to Make Sense of Human Food Intake Behavior. British Association for Parenteral and Enteral Nutrition. <i>Invited presentation</i> .	November 2022
CR Cawthon*. Food Addiction: Fact or Fiction	
University of Georgia, Department of Nutritional Sciences	October 2017
S Belcher, CR Cawthon *, L Coheley, N Motoyasu. Good Diets Gone Fad.	

November 2015

AWARDS AND HONORS

University of Georgia, Department of Nutritional Sciences

AWARDS AND HONORS		
Florida State University Office of Postdoctoral Affairs, 5-Minute Research Talk (5MR) First Place Award Winner	September 2023	
Florida State University Office of Postdoctoral Affairs Travel Award	August 2022	
Florida State University NIH Chemical Senses Training Grant Appointee	Sep 2020 – Aug 2023	
University of Georgia Obesity Initiative (UGAOI), Second Place Student Oral Presentations, UGAOI Inaugural Symposium, Athens Georgia	March 2020	
Academy of Nutrition and Dietetics, Irene J. Jones Memorial Scholarship Recipient	2019 — 2020	
University of Georgia College of Family and Consumer Sciences, <i>Pearce L. and Mary Wells Elkins Scholarship</i> Recipient	2019 — 2020	
Society for the Study of Ingestive Behavior, Best Poster Presentation Award Recipient, SSIB Annual Meeting, Utrecht, Netherlands	July 2019	
University of Georgia College of Family and Consumer Sciences, Foods and Nutrition Department Travel Award Recipient	July 2019	
University of Georgia College of Family and Consumer Sciences, FACS Funds for Excellence Travel Award Recipient	July 2019	
University of Georgia, Graduate School International Travel Award Recipient	July 2019	
Academy of Nutrition and Dietetics, Foundation Commission on Dietetics Registration Doctoral Scholarship Recipient	2018 — 2019	
University of Georgia College of Family and Consumer Sciences, Sharon Boone Hamner Foods and Nutrition Scholarship Recipient	2018 — 2019	
Academy of Nutrition and Dietetics, Patsyjane O'Malley Memorial Scholarship Recipient	2017 — 2018	
University of Georgia College of Family and Consumer Sciences, <i>Anne and Earl Haltiwanger Scholarship</i> Recipient	2017 — 2018	
University of Georgia College of Family and Consumer Sciences, Ruth Rowan Morrison Graduate Endowment in Nutrition Studies Recipient	2017 — 2018	
Northeast Georgia Dietetic Association, Graduate Scholarship Recipient	May 2017	
Georgia Academy of Nutrition and Dietetics, Outstanding Dietetic Intern Award	March 2017	
Georgia Nutrition Council, Holly B. Alley Scholarship Recipient	March 2017	
Georgia Nutrition Council, Student Research Presentations Overall First Place Award Winner, Georgia Nutrition Council Conference, Augusta Georgia	March 2017	
University of Georgia College of Family and Consumer Sciences, <i>Costa Travel Fund</i> Award Recipient	January 2017	
University of Georgia College of Family and Consumer Sciences, Foods and Nutrition Department Travel Award Recipient	January 2017	

May 2015

SERVICE AND PROFESSIONAL AFFILIATIONS

Society for the Study of Ingestive Behavior New Investigator Advisory Board, Member, 2019 — 2024 2017 —	- present
Georgia Academy of Nutrition and Dietetics 2013 —	- present
Academy of Nutrition and Dietetics Student Host, Food and Nutrition Conference and Expo, Atlanta, Georgia, October 2014	- present
Florida State University Postdoc Association 2021 Social Chair, 2021 — 2023	I — 2024
Blue Key National Honor Society Secretary, 2019 — 2020	3 — 2020
Northeast Georgia Dietetics Association Immediate Past-president, 2019 — 2020 President, 2018 — 2019 President-elect, 2017 — 2018 Treasurer, 2016 — 2017	5 — 2021
University of Georgia Foods and Nutrition Graduate Student Organization 2015 Treasurer, 2016 — 2017	5 — 2020
University of Georgia, Department of Nutritional Sciences, Awards Committee 2017	7 — 2018
University of Georgia, Department of Nutritional Sciences, Graduate Recruitment Committee	6 — 2017

Peer reviews: American Journal of Physiology-Regulatory, Integrative and Comparative Physiology; Appetite

SELECTED COMMUNITY OUTREACH AND VOLUNTEER WORK

Academy of Nutrition and Dietetics, Dietitians in Integrative and Functional Medicine Dietetics Practice Group Guest reviewer of educational materials for continuing education of DPG members	April 2020
University of Georgia Extension, 4H Served as Preparation Judge for Senior Food Challenge competition	November 2019
University of Georgia Extension, 4H Judged Junior and Senior food projects at District Project Achievement held at Rock Eagle	March 2015, March 2016
Academy of Nutrition and Dietetics Food and Nutrition Conference and Expo Student Host: Set-up and closed Silent Auction, assisted with Kids Eat Right Gala ticket pickup, received Foundation donations	October 2015
Healthy Living, special magazine section to the Hartwell Sun Contributor, "Eating Healthy on a Budget" which offered suggestions and recipes for nutritious, frugal meals	September 2014