

Matthew Thomas Garnett

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(334) 657-6399

PERMANENT ADDRESS

70 Huckleberry Lane
Wetumpka, AL 36092

UNIVERSITY ADDRESS

626 Shug Jordan Parkway #10-131
Auburn, AL 36832

EDUCATION

Auburn University, Auburn, AL

Doctor of Philosophy (PhD) in Chemical Engineering 2020-present
Master of Science (Non-Thesis) in Chemical Engineering
Preliminary Examination Passed 11/11/2022
GPA = 3.90/4.00

Auburn University, Auburn, AL

Bachelor of Chemical Engineering 2015-2020
Graduated Cum Laude
Specialization in Biomedical Sciences
GPA = 3.44/4.00

Saint James School, Montgomery, AL

K-12th Grade 2003-2015
Graduated with Honors (Magna Cum Laude, Honors Diploma, Mu Alpha Theta,
Latin Honor Society, National Technical Honor Society, and
National Honor Society)

AWARDS & HONORS

Academic

J. Alley Family Graduate Leadership Fellowship 2023
Jeff and Linda Leadership Award 2023
Dow Chemical Endowment – Outstanding Graduate Teaching Assistant 2022
Department of Chemical Engineering Outstanding Graduate Teaching Assistant 2022
Department of Chemical Engineering Outstanding Graduate Teaching Assistant 2021
National Society of Leadership and Success 2017-2020
Phi Eta Sigma Honor Society 2016-2020
Auburn Chemical Engineering Departmental Scholarship 2016
Auburn University Samuel Ginn College of Engineering Dean's List Fall 2015, Fall 2017, & Fall 2018
Auburn Alumni Association Endowed Scholarship 2015
Carole Lillian James Award (Science Department at Saint James School) 2011-2015

Extracurricular

APDFL Championship Football Game Official 2022
AHSAA Flag Football State Championship Football Game Official (Super 7) 2022
AHSAA North/South Allstar Game Football Official 2022
AHSAA 6A State Championship Football Game Official (Super 7) 2021
NFHS National Televised Game of the Week (IMG Academy vs. Auburn High School) 2021

EXPERIENCE

Council of Engineering Graduate Students (CEGS), Auburn, AL 2022-Present
President

- * Leading member of the executive committee.
- * Organized and presided over meetings, events, communicating with faculty and university leaders, and other task that needed to be done.
- * Coordinated the Perspective Graduate Student Visit with the Associate Dean.
- * Created the AUsome Science in 60 Seconds competition for graduate and undergraduates with the help of Dr. Maria Auad (Associate Dean). This is a video competition where students have 60 seconds to describe their research in video format.

Auburn's Food Insecurity Coalition, Auburn, AL 2022-Present
Member

- * Member of the council look to address food insecurity needs of students, faculty, and staff on the campus of Auburn University.

The Alexander Research Team (ART), Auburn, AL 2021-Present
Graduate Researcher

- * Graduate Researcher under Dr. Symone Alexander.
- * Main project involves generating cellulose microgels that can deliver probiotics to the gut Remove uremic toxins to help patients that suffer with chronic kidney disease.
- * Collaborated on two multidisciplinary projects: one was a DHS funded project and the other was a collaborative project with other departments at Auburn and industrial partners.

Council of Engineering Graduate Students (CEGS), Auburn, AL 2021-2022
Treasurer

- * Member of the executive committee.
- * Managed getting quotes, placing orders, planning events, and keeping track of the money the group spent.
- * Planned and helped with events throughout the year.
- * Developed the 2021 CEGS Olympics for networking between different engineering disciplines.

Southeastern Conference (SEC) Auxiliary Official, Auburn, AL 2021-Present
Play Clock (25/40) Operator

- * Operated the play clock for all home Auburn University football games.
- * Officiated scrimmages for Auburn University Athletics.

Big East Football Officials Association (BEFOA), Auburn, AL 2021-Present
Board Member – Communications Director

- * Board member of the local football official's association.
- * Streamlined emails and news to the association members and designed the association website that will debut for the 2023 season.

Amateur to Professional Developmental Football League (APDFL), Auburn, AL 2019-Present
Football Official

- * Football official for the semi-professional football league
- * Officiated the 2022 APDFL Championship Game in Atlanta, Georgia.

- Alabama High School Athletics Association (AHSAA), Auburn, AL** 2015-Present
Football Official
- * Officiate Youth, Middle, and High School Level Games
 - * Worked multiple state championships, playoff, and special contest games.
 - * District camp instructor teaching back, field, and side judges at camp (since 2019).
- Auburn University Recreation, Auburn, AL** 2015-2016
Intramural Football Official
- * Officiated all levels of flag football at Auburn University
 - * Officiated championship games in 2015 and 2016
- Coosa River Bath and Body, Wetumpka, AL** 2014-Present
IT Support
- * Provided solutions for computer and technical problems for this foot cream company.
- Counseling Centers for Women, Montgomery, AL** 2014-2016
Website Creator
- * Designed the company's website prior to their opening.
- AME Engineering, Montgomery, AL** 2013-2018
Website Creator
- * Designed the company's new website prior to the owner retiring and selling to a larger corporation.

TEACHING EXPERIENCE

CHEN 2650: Chemical Engineering Applications of Mathematical Techniques (Undergraduate Course)

- * Semester: SU21
- * Faculty: Dr. W. Bob Ashurst
- * Teaching Assistant Role: Grader and Proctor
- * Description: Graded all student work. Proctored students during their exams. Conducted office hours to assist students who needed help with material learned in class.

CHEN 3600: Computer-Aided Chemical Engineering (Undergraduate Course)

- * Semesters: SP21, SU21, SU22, & SP23
- * Faculty: Dr. W. Bob Ashurst, Dr. Selen Cremaschi, and Dr. Allan David
- * Teaching Assistant Role: Lab Instructor, Lecturer, and Grader
- * Description: Lectured students on computational tools to solve chemical engineering problems (MATLAB). Developed assignments such as homework, labs, quizzes, midterm exams, and final exam to test measure student's understanding of the material. Graded all student work. Conducted office hours to assist students who needed help with material learned in class.

CHEN 3700: Chemical Reaction Engineering (Undergraduate Course)

- * Semesters: SU22 & FA22
- * Faculty: Dr. Symone Alexander
- * Teaching Assistant Role: Guest Lecturer and Proctor
- * Description: Lectured students on reaction engineering principles such as reactor design. Proctored students during their exams.

CHEN 4460: Process Simulation Synthesis and Optimization (Undergraduate Course)

- * Semesters: FA20 & FA21
- * Faculty: Dr. Steve Duke and Dr. Joseph Shaeiwitz
- * Teaching Assistant Role: Lecturer, Lab Instructor, and Grader
- * Description: Lectured students on computational tools to solve chemical engineering design problems (ASPEN Plus). Supported students throughout the lab period with using ASPEN Plus. Graded all student work. Mentored undergraduate teaching assistants in this course.

CHEN 7250: Chemical Reaction Engineering (Graduate Course)

- * Semester: SP21
- * Faculty: Dr. Symone Alexander
- * Teaching Assistant Role: Guest Lecturer and Proctor
- * Description: Lectured students on reaction engineering principles such as reactor design. Proctored students during their exams.

UNIV 1050: Success Strategies

- * Semester: FA18
- * Faculty: Mrs. Olivia Segars
- * Undergraduate Teaching Assistant Role: Instructor and Grader
- * Description: Guided and taught first year students how to be successful during their first year at Auburn University. Graded student work.

PUBLICATIONS & PRESENTATIONS

- 1) **Garnett, M.** (2023, March 23) *Hydrogel Products from Food Waste* [Auburn University's Graduate Engineering Research Showcase in Huntsville (Auburn's Innovation and Research Campus)]. Auburn GERS, Huntsville, AL, United States
- 2) **Garnett, M.** & Alexander, S. (2022, November 17). *Multifunctional materials for adsorption of metabolic toxins with a focus on Chronic Kidney Disease* [AICHE Annual Conference]. AICHE 2022, Phoenix, Arizona, United States.
- 3) **Garnett, M.** (2022, October 20) *Hydrogel Products from Food Waste* [Auburn University's Graduate Engineering Research Showcase]. Auburn GERS, Auburn, AL, United States.
- 4) **Garnett, M.** (2022, July 26) *Multifunctional materials for adsorption of metabolic toxins with a focus on Chronic Kidney Disease* [Center for Polymer and Advanced Composites at Auburn University Graduate Summer Seminar Series]. CPAC 2022, Auburn, AL, United States.
- 5) **Garnett, M.** (2022, March 29) *Multifunctional materials for adsorption of metabolic toxins with a focus on Chronic Kidney Disease* [Auburn University's Graduate Engineering Research Showcase in Huntsville (US Space and Rocket Center)]. Auburn GERS, Huntsville, AL, United States
- 6) Alexander, S. & **Garnett, M.** (2022, March 16). *Microgels from food waste as a tool to understand microbe interactions with hierarchical fiber networks* [APS March Meeting]. APS 2022, Chicago, Illinois, United States.
- 7) Alexander, S. & **Garnett, M.** (2021, November 9). *Dietary Fiber-Inspired Hydrogels for Removal of Uremic Toxins* [AICHE Annual Conference]. AICHE 2021, Boston, Massachusetts, United States.

UNIVERSITY SERVICE

Auburn University's Food Insecurity Coalition	2023-Present
Engineer Together Day Planning Committee	2023-Present
Auburn Engineering Leadership Lunch and Learn Keynote Speaker	2023
Samuel Ginn College of Engineering Dean Search Committee Member	2022-Present

SafeZone Certification (Auburn DEI Initiative)
Council of Engineering Graduate Students at Auburn University (CEGS)

2022
2020-Present

COMMUNITY SERVICE

Alexander Research Team Outreach	2020-Present
Samuel Ginn College of Engineering Outreach	2020-Present
BEST Robotics	2015-2020
Science Olympiad	2015-2017
AMPD Puzzle Competition	2015
People That Care	2013-2015

ACTIVITIES

AHSAA Football Officials South Central District Camp Instructor	2019-Present
American Institute of Chemical Engineers' (AIChE)	2018-Present
LUTZ 43 Flag Football Tournament	2018
Theme Park Engineering Group	2016-Present

REFERENCES

Engineering:

Dr. Symone Alexander

- * Assistant Professor, Department of Chemical Engineering
- * Contact: sla0044@auburn.edu

Dr. Maria Auad

- * Charles Gavin Distinguished Professor, Department of Chemical Engineering
- * Associate Dean for Graduate Studies and Faculty Development, Samuel Ginn College of Engineering
- * Contact: auad@auburn.edu

Dr. Allan David

- * John W. Brown Professor, Department of Chemical Engineering
- * Acting Associate Dean for Research, Samuel Ginn College of Engineering
- * Contact: aed0022@auburn.edu

Dr. Mario Eden

- * Joe T. and Billie Carole McMillan Professor
- * Dean, Samuel Ginn College of Engineering
- * Contact: edenmar@auburn.edu

Football Officiating:

Major General Dick Burleson

- * SEC Referee and Observer
- * Contact: dick.burleson@neel-schaffer.com

Martin Hankins

- * NFL Back Judge
- * Contact: mdhanks@aol.com

Chad Hill

- * NFL Side Judge (# 125)
- * Contact: chill125@yahoo.com

Jeff Hilyer

- * Sun Belt Referee and SEC/Sun Belt Replay Center Official
- * Contact: jeff@hilyercpa.com