



# Morgan K. Green, Ph.D.

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## Curriculum Vitae

Starkville, MS

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## Education

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### Doctor of Philosophy in Engineering Education May 2023

Mississippi State University, Starkville, MS

Dissertation: "An Investigation into Perceptions, Expectations, and Development of Professional Skills in Engineering Students"

Advisor: Alta Knizley; Committee: Dana Franz, Aaron Smith, and Lesley Strawderman

### Masters of Science in Mechanical Engineering May 2019

Mississippi State University, Starkville, MS

Non-Thesis topic: "Engineering Education Topics Applied to Improve Understanding of Engineering Topics at the Collegiate and K-12 Level"

Advisor: Alta Knizley; Committee: Pedro Mago and Matthew Priddy

### Bachelors of Science in Mechanical Engineering, *Summa Cum Laude* May 2017

Mississippi State University, Starkville, MS

## Professional Experience

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### Instructor 2019-Present

Department of Mechanical Engineering, Mississippi State University

### Graduate Teaching Assistant 2017-2019

Department of Mechanical Engineering, Mississippi State University

### Graduate Assistant 2017-2019

Famous Maroon Band, Mississippi State University

## Educational Conference Proceedings (*underline denotes student author*)

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- **Green, M.** (2023). Integration of Discord as a Communication Tool in Undergraduate Engineering Courses, 2023 ASEE Southeast Section Conference, Fairfax, VA.
- Holdegraver, A. and **Green, M.** (2023). Improving Engineering Student Professional Communication Through Mini-Laboratory Reports, 2023 ASEE Southeast Section Conference, Fairfax, VA.
- Knizley, A., **Green, M. K.**, Bhushan, S. (2023). Establishing Consistent Evaluation Metrics to Combat Pre-Requisite Deficits in Entry-Level Mechanical Engineering Courses, 2023 ASEE Southeast Section Conference, Fairfax, VA.
- Mederos, M., Daigler, J., and **Green, M.** (2023). Use of Industry Standard Certification as an Early Indicator of Retention Within an Engineering Program, 2023 ASEE Southeast Section Conference, Fairfax, VA.
- Smith, J. A., Knizley, A., **Green, M.** (2023). A survey to assess the importance of analysis in an undergraduate Mechanical Engineering curriculum, 2023 ASEE Southeast Section Conference, Fairfax, VA.
- Knizley, A., **Green, M.**, and Cho, H. (2022). Developing New Instructor Training and Mentorship to Enhance Mechanical Engineering Program, 2022 ASEE Southeast Section Conference, Charleston SC.
- Adams, B., **Green, M.**, and Knizley, A. (2022). Consistency in Instruction and Assessment of Student Engineering Laboratories, 2022 ASEE Southeast Section Conference, Charleston SC.
- McCabe, E. and **Green, M.** (2020). Enhancing K-12 Programs Through the Implementation of Discipline Specific Demonstrations, 2020 ASEE Southeast Section Conference, Auburn AL.
- Spayde, D., **Green, M.**, and Kinard, K. (2020). Preemptive Topic Exposure to Enhance Student Interactions with Potential Employers, 2020 ASEE Southeast Section Conference, Auburn, AL.
- **Green, M.**, Spayde, D., and Mago, P., (2019). Evaluating Course Effectiveness during the Transition from Demonstration to Hands-on Teaching Methods in the Solid Mechanics Laboratory, 2019 ASEE Southeast Section Conference, Raleigh, NC.
- Spayde, D., **Green, M.**, and Kinard, K., (2019). Student Response to the Introduction of Programmable Logic Controllers Through the Use of a Virtual Engineering Laboratory Environment, 2019 ASEE Southeast Section Conference, Raleigh, NC.
- **Green, M.** and Knizley, A., (2018). Planning, Implementation, and Impact of K-12 Outreach Program Project ENspire, 2018 ASEE Southeast Section Conference, Daytona Beach, FL.
- **Green, M.**, Spayde, D., and Mago, P., (2018). Use of Instructional Videos to Enhance the Learning Objectives of the Thermal Fluids Laboratory, 2018 ASEE Southeast Section Conference, Daytona Beach, FL.

## Funding for Supporting Student-led Groups

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- Knizley, A. A. (Principal), **Green, M. K.** (Co-Principal), Grant, "2021-2022 MSSGC Student Led STEM Activities", University of Mississippi, State, \$11,013.00. (start: August 1, 2021, end: September 30, 2022).
- Knizley, A. A. (Principal), **Green, M. K.** (Co-Principal), Grant, "2019-2020 MSSGC Student Led STEM Activities", University of Mississippi, State, \$10,910.00. (start: October 1, 2019, end: May 31, 2020).

## Courses Taught

ME 1111 Introduction to Mechanical Engineering	Fall 2019 ● 234 students ● 3.6/5.0 ● 72%
	Spring 2020 ● 72 students ● 3.6/5.0 ● 72%
	◆ Fall 2020 ● 210 students ● 4.1/5.0 ● 82%
	Spring 2021 ● 42 students ● 4.5/5.0 ● 90%
ME 3103 Experimental Measurements and Techniques	Fall 2021 ● 102 students ● 3.34/4.00 ● 83%
	Fall 2022 ● 89 students ● 3.61/4.00 ● 90%
	Spring 2023 ● 87 students ● 3.63/4.00 ● 91%
ME 3313 Heat Transfer	Spring 2022 ● 50 students ● 3.61/4.00 ● 90%
ME 3513 Thermodynamics I	Spring 2022 ● 66 students ● 3.33/4.00 ● 83%
ME 3523 Thermodynamics II	Fall 2021 ● 67 students ● 3.66/4.00 ● 92%
	Spring 2022 ● 64 students ● 3.62/4.00 ● 90%
	◆ Summer 2022 ● 35 students ● 3.33/4.00 ● 83%
	Fall 2022 ● 76 students ● 3.70/4.00 ● 92%
	Spring 2023 ● 65 students ● 3.77/4.00 ● 94%
ME 4301 Thermo-Fluids Laboratory	Fall 2019 ● 88 students ● 4.5/5.0 ● 90%
	Spring 2020 ● 92 students ● 4.7/5.0 ● 94%
	Fall 2020 ● 88 students ● 4.6/5.0 ● 92%
	Spring 2021 ● 82 students ● 4.3/5.0 ● 86%
ME 4401 Solid Mechanics Laboratory	Fall 2019 ● 76 students ● 4.5/5.0 ● 90%
	Spring 2020 ● 99 students ● 4.7/5.0 ● 94%
	Fall 2020 ● 91 students ● 4.5/5.0 ● 90%
	Spring 2021 ● 85 students ● 4.2/5.0 ● 84%
	Fall 2021 ● 72 students ● 3.69/4.00 ● 92%
ME 4000 DIS: 7 total sections	Summer 2021-Present ● 9 students
<b>Overall Student Evaluation of Teaching Score: 87.95%</b>	
<b>(4.32/5.00 pre fall 2021) (3.58/4.00 fall 2021 onward)</b>	
◆ denotes online	

### Taught as Graduate Teaching Assistant:

- ME 4401, Solid Mechanics Laboratory, Fall 2018 (81 students) and Spring 2019 (97 students)

## Professional Development

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- [Maroon Academy for Teaching Excellence](#), Initial Cohort; 2023
- Online Course and Tools Showcase, MSU Center for Distance for Education; March 2023
- New Faculty Teaching Academy, MSU Center for Teaching and Learning; Winter 2022
- Teaching Portfolio Workshop, MSU Center for Teaching and Learning; Spring 2022.
- Reflective Teaching Series, MSU Center for Teaching and Learning; Spring 2022.
- MSU Safe Zone Ally Certification; Spring 2022
- Student-Centered Approaches to Supporting Students in Distress, Center for Teaching and Learning, Mississippi State University; February 2022
- Preparing Future Faculty Program, Center for Teaching and Learning, Mississippi State University; 2020-2021
- Online Teaching 101: Best Practices in Online Instruction, Center for Teaching and Learning, Mississippi State University; September 2020

## Mentee and Advisee Statistics

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- Primary curriculum advisor for approximately **20** students per semester
- Direct supervisor and mentor of **2** Graduate Teaching Assistants since Fall 2021
- Ad-hoc mentor of **2** Graduate Teaching Assistants since Fall 2021
- Faculty mentor of a total of **10** officers of the Mechanical Engineering Ladies Organization (MELO) since Fall 2019
- Written a total of **47** recommendation letters for **34** students
- Total of **97** unique student visitors totaling **358** office visits since February 2023

## Student Awards

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**Caitlin Luke – Bagley College of Engineering Hall of Fame**

Spring 2022

**Olivia Russell – Bagley College of Engineering Hall of Fame**

Spring 2022

**Natalia Beltran-Diaz – Bagley College of Engineering Hall of Fame**

Spring 2023

## MSU Service

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Director, Project ENspire	2016-Present
Co-faculty Advisor, Mechanical Engineering Ladies Organization (MELO)	2019-Present
Faculty Advisory Board Member, Tau Beta Pi (TBP) Engineering Honor Society	2019-Present
Committee Member, Undergrad. Committee, Mechanical Engineering Dept.	2019-Present
Committee Chair, Mech. Eng. Laboratory Course Standardization Com. (CSC)	2021-Present
Undergraduate Laboratory Coordinator, Mechanical Engineering Department	2021-Present
Assistant Undergraduate Laboratory Coordinator, Mechanical Engineering Dept.	2019-2021

## Honors

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- Bagley College of Engineering Academy of Distinguished Teachers Inductee (2023)
- Mississippi State University 2023 Zacharias Early Career Undergraduate Teaching Award, Finalist
- American Society for Engineering Education Southeastern Section Outstanding New Teacher Award, Nominee (2023)
- Mechanical Engineering Outstanding Service Award (2021)
- [Bagley College of Engineering Student Hall of Fame Inductee](#) (2019)
- [Mississippi State University Graduate School Student Hall of Fame Inductee](#) (2019)
- [Mississippi State University President's Commission on the Status of Women Outstanding Graduate Student Award](#) (2019)
- Inducted into MS Alpha Chapter of Tau Beta Pi Engineering Honor Society (2015)

## Professional Organizations

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- American Society of Engineering Education
  - Southeastern Section:
    - K-12 Division: Secretary, 2021; Vice-Chair, 2022; Chair, 2023
    - Publications and Promotions Unit: Secretary, 2024
- Tau Beta Pi Engineering Honor Society, MS Alpha Faculty Advisory Board Member
- American Society of Mechanical Engineers

## Invited Outreach Presentations and Participation

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- Mississippi Governor's School Instructor; June 2023.
- Theta Talks, hosted by Theta Tau Fraternity; March 23, 2023
- Invited Speaker, New Hope Middle School STEAM Night, Columbus, MS; February 2023
- Student Chapter Meeting, "The Enneagram and Leadership." TBP Engineering Honor Society at MSU; September, 2022.
- Invited Speaker, New Hope Middle School STEAM Night, Columbus, MS; March 2022.
- Invited Speaker, West Elementary Career Expo, Sturgis, MS; April, 2021.
- Invited Panelist, MSU EcoCAR and SWE Women in Engineering Instagram Live; January 2021.
- Mississippi Governor's School Interest Area Course Instructor; June 2020. *Cancelled due to COVID-19.*