Student Achievements

An undergraduate (BSFS) degree in our program is the foundation for success, professionally as well as academically. Program success can be determined through scholarship, internship, and career placement, etc.

Scholarship

An important measure of student achievement is our ability to publish and present original research in the field of forensic science at local, regional, national, and international forums. Our students not only presented but won awards for their research presentations.

- Synthesis of Cr-doped Co₃O₄ Electrocatalyst for Water Oxidation in Acid Medium.
- Raman Spectroscopy on Nanoparticles in Latent Fingerprint Development and Detection. Sheenamelia Jones*, Angela Berry, Laura Schumaker, Tenneil Williams, Khalid Lodhi, and Bhoj Gautam. Organized by Forensic Technology Center of Excellence a program of the National Institute of Justice (NIJ), September 13, 2021. *Presenter (virtual)


• Two students gave a poster presentation on their undergraduate research project “The Isolation, Identification, and Time Course Human Male DNA Typing from Cimex lectularius L. (Bed bugs), Fed on Human Male and Pooled Blood Meals” at 2018 STEM Research Symposium, Fayetteville State University, April 19, 2018.

• Two undergraduate research students gave a poster presentation entitled “Recovering Human Male DNA from Fired Casings Using YFiler”: 2018 STEM Research Symposium, Fayetteville State University, April 19, 2018.

• Ono student gave a poster presentation on her undergraduate research project “Understanding Jury Verdicts using Logistic Regression Modeling” organized by the Center for Statistics and Application in Forensic Science (csafe) at Iowa State University, Ames, Iowa, August 2, 2018

• Ono student gave a poster presentation on her undergraduate research project “Development of an Initial Handwritten Letter Classifier for use in Forensic Document Analysis” organized by the Center for Statistics and Application in Forensic Science (csafe) at Iowa State University, Ames, Iowa, August 2, 2018

• State of North Carolina Undergraduate Research & Creativity Symposium at Campbell University (November 4, 2017)

• NC-LSAMP Annual Research Conference at North Carolina State University (November 17, 2017). **First prize winner.**

• Two students gave a joint poster presentation on their undergraduate research ” at FSU Board of Governors meeting on October 23, 2017.

• FSU Undergraduate Research Symposium on January 28, 2016

• 113th North Carolina Academy of Sciences at Methodist University, NC April 1, 2016

• FSU Graduate School Student Research Conference April 1, 2016

• 26th International Symposium on Human Identification at Grapevine, TX October 2015

• NC-LSAMP Annual Research Conference at UNC Pembroke, October 2015
Student Research

Several students have completed or are conducting undergraduate research with FSU faculty. Students’ research and stipend are sponsored through NSF funding. Faculty research having undergraduate research students and fields:

- **One student** is conducting undergraduate research on a research project “**Analysis of Seed Germination in Cultivated Soybean and Wild Soybean**” under Dr. Jiazheng (John) Yuan.
- **One student** is conducting undergraduate research on a research project “**Sequence Characteristics of COVID-19 Genome**” under Dr. Jiazheng (John) Yuan.
- **Two students** are conducting undergraduate research on a joint research project “**Recovery of DNA from Unfired Ammunition Using Genomic and Y-STR Profiling**” under Khalid Lodhi.
- **Two students** are conducting undergraduate research on a project ”**The study of the effectiveness of Cannamix, a compound derived from hemp, at controlling the Alphitobius Diaperinus population**" under Dr. Shirley Chao
- Two students are conducting undergraduate research on a project ”**Impact of heat stress on wheat resistance to Hessian fly.**" under Dr. Lieceng Zhu.
- **One student** has conducted undergraduate research on a research project “**Synthesis of Cr-Doped Co3O4 Electrocatalyst for Water Oxidation in an Acid Medium**" under Dr. Zhiping Luo.
- **One student** has conducted undergraduate research on a research project “**Peppermint Oil as a Natural Pesticide**” under Dr. Shirley Chao.
- **Two students** have conducted undergraduate research on a joint research project “**Application of Polymer Nanoparticles in Latent Fingerprint Development and Detection**” under Bhoj Gautam, Angela Berry, Tenneil Williams, and Khalid Lodhi.

Student Publication

Forensic students (highlighted) are among the co-authors on published papers in peer reviewed journal:

- Zariana R Mobley (undergraduate), Shanell L Jackson (undergraduate), Gibin George,


Undergraduate Internships

Forensic science students participated in internships at various agencies in North Carolina, at Iowa State University, and at Federal Bureau of Investigation (FBI).

- One student completed her summer internship at Onslow County Sheriff’s Office in 2022.
- One student completed her summer internship at the FBI in summer 2019.
- Two students completed their summer (2019) internship at the Fayetteville Police Department, Fayetteville, NC.
- Two students completed their summer Center for Statistics and Application in Forensic Science (CSAFE) at Iowa State University, Ames, Iowa, June 3-August 3, 2018.
- One student completed her summer (2018) internship at the Fayetteville Police Department, Fayetteville, NC.
- One student completed her summer (2018) internship in the Pathology laboratory at the Cape Fear Valley Hospital, Fayetteville, NC.
- One student completed her summer internship at SBI, Raleigh, NC in 2017.
- Five students completed a 6-week summer internship sponsored by the CSAFE at Carnegie Mellon University and Iowa State University June-July 2017.
- Two students completed their summer (2015) at Cumberland County Sheriff’s Office.

Career Placements

Since the inception of the Program in 2006, 114 students have graduated with a degree in Forensic Science. A survey of the graduates showed that of the 65 (57.0%) respondents, 23 entered into the biotechnology industry (35.4%); 14 went to graduate school (21.5%); 8 are confirmed working in forensic agencies (12.3%); 3 entered into the Armed Forces Labs (4.6%); 4 entered into the chemical industry (6.2%); 2 entered into the professional school (3.1%); 1 employed in pathology lab (1.5%); 2 works as an instructor (3.1%); 1 is working as a researcher in a university research laboratory (1.5%); 7 are working nonscientific jobs (10.8%); and 49 did not respond to our survey (43.0%). Therefore, 89.2% of respondents confirmed career placements or graduate school admissions.
Data from 49 (43.0%) students that did not respond are not included.
Five Year Success Rate

The five-year (2018-2022) success rate of the 68 graduate respondents of the Forensic Science Program showed that on average, 44.1% of the graduates entered career pathways or pursued graduate/professional school. The remaining 37 (54.4%) graduates did not share their post-graduation status.

<table>
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<th>Field of work</th>
<th>Years</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
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<td>No of Grads</td>
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<td>14</td>
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<td>Success rate (%)</td>
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<td>19.0</td>
<td>70.0</td>
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*Non-STEM fields