

Katelyn S. Provine, MD

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First-year AP/CP resident with special interests in academic involvement, promoting wellness amongst health professions trainees, and mentorship, pursuing fellowship opportunities in GI and bone / soft tissue pathology.

EDUCATION

BS Mississippi State University, *summa cum laude*, Microbiology Aug 2016 – May 2020
Starkville, MS

MD University of Tennessee Health Science Center COM Aug 2020 – May 2024
Memphis, TN

POST-GRADUATE EDUCATION

Anatomic and Clinical Pathology July 2024 – June 2028
University of Tennessee Health Science Center
Memphis, TN

PROFESSIONAL RESEARCH EXPERIENCE

Research Assistant, Department of Pathology and Laboratory Medicine May 2023 – May 2024
University of Tennessee Health Science Center, Memphis, TN

- Reviewed IRB and Research Protocol
- Performed retrospective chart analysis of case series comparing T2 magnetic resonance and blood culture's utility in detecting fungemia / bacteremia and impact on clinical

Research Assistant, Department of Biological Sciences
Mississippi State University, Starkville, MS Jan 2018 – May 2020

- Developed RFLP protocol for distinguishing iguana species DNA within blood meals
- Instructed Mosquito Research and Control Unit of Grand Cayman on RFLP and PCR protocol

Research Assistant, Microbiology Department
U.S. Army Engineer Research and Development Center, Vicksburg, MS Seasonal 2017

- Investigated biodegradation of explosives DNT and RDX in soil of firing ranges
- Independently maintained laboratory such as equipment sterilization and media preparation

Research Assistant, Department of Basic Sciences Seasonal 2017
Mississippi State University College of Veterinary Medicine, Starkville, MS

- Investigated viral epidemiology within the aquaculture industry
- Extracted DNA, managed HPLC, and performed colony counts

RESEARCH ACTIVITIES

Presentations

SOX-11 Expression in ETV6::NTRK3-Rearranged Infantile Fibrosarcoma / Spindle Cell Neoplasms is Frequent and Highly Specific

- USCAP 114th Annual Meeting March 2025 - **Platform Presentation, Poster Presentation** [Stowell Orbinson Award Category]
- St. Jude Research Symposium April 2025 - **Poster Presentation**

Katelyn S. Provine, M.D. Selene C. Koo, M.D., Ph.D., Enrico Pozzo, M.D., Rita Alaggio, M.D., Faizan Malik, M.D.

Whole Blood Nucleic Acid Amplification Followed by Magnetic Resonance in the Rapid Detection of Bacterial and Fungal Sepsis: An Institutional Experience

- UTHSC GME Longitudinal Scholars Project Research Symposium March 2024 - **Poster presentation**

Glenn Murray DO, Jasmine Jefferson MD, Jonathan Sookdeo MD, Sara Cross MD, **Katelyn Sue Provine**, & Vickie Baselski PhD.

NASTY NEIGHBORS: DNA Barcoding Mosquito Blood Meals to Formulate Preliminary Data Concerning the Epidemiological Threat of the Invasive Green Iguana (*Iguana iguana*) to Two Endemic and Endangered Cayman Island Iguana Species

- Honors Undergraduate Research Program (HURP) April 2019 - **Poster Presentation**
- Biology Undergraduate Research Program (BURP) Symposium April 2019 – **Poster Presentation**

Welch, M. Jackson, A. McKinney M. & **Provine, K.**

Ongoing Projects

Expression in ETV6::NTRK3-Rearranged Infantile Fibrosarcoma / Spindle Cell Neoplasms is Frequent and Highly Specific

- Faculty Mentor: Dr. Faizan Malik, MD

An Institutional Experience Distinguishing Bacterial from Viral Infections with the MeMed BV Clinical Laboratory Assay.

Faculty Mentor: Dr. Gabriela Gheorge

Impact of Novel Social Program on Wellbeing and Burnout Among Healthcare Trainees

- Faculty Mentor: Desiree Burroughs-Ray, MD

Metastatic Aggressive Digital Papillary Adenocarcinoma with TERT Promoter Mutation.

- Faculty Mentor: Kwame Torgbe, MD

Therapy-Related Acute Myeloid Leukemia Relapsed as Duodenal Myeloid Sarcoma in a Patient with Langerhans Cell Histiocytosis with Gastrointestinal Tract Involvement.

- Faculty Mentor: Gabriela Gheorge, MD

PROFESSIONAL SERVICE & VOLUNTEER ACTIVITIES

College of American Pathologists

- Resident Forum Delegate April 2025 – Present

University of Tennessee Health Science Center, Memphis TN

- Founder of Lunch Buddy Social Program June 2025 - Present
- GME Wellness Committee Member April 2025 - Present
- Resident Liaison for Pathology Student Interest Group May 2025 - Present
- GME Recruitment Video Participant April 2025
- Lead Peer Mentor May 2023 – May 2024
- Vice President, Pathology Student Interest Group August 2023 – May 2024

Memphis Veterans Association Medical Center, Memphis TN

- Author of VA Surgical Pathology Resident Manual December 2025

Memphis Crisis Center, Memphis TN

- Crisis Line Specialist March 2023 – Nov. 2024

Mississippi State University

- Treasurer, American Medical Women's Association August 2017 – May 2020
- Founder and President, Art Outreach Team August 2018 – May 2020
- Vice President of Marketing and Outreach, Medical Brigades Summers 2017 – 2019
- Student Association Senate, Service Related Organization Rep August 2018 – May 2019

HONORS/AWARDS/CERTIFICATION

Residents as Educators Certification	Feb. 2025 – Dec. 2025
988 Suicide and Crisis Hotline Lifeline Learning Certification	May 2024
Alan Nunnelee Presidential Endowed Scholar	August 2016 – May 2020
Phi Beta Kappa Member, Gamma of Mississippi Chapter	April 2019
Northeast Mississippi Daily Journal Research Award	2017