

Kelsey Parks

Education & Training

Vanderbilt University Medical Center Dermatology Resident	(2022-Present)
Northside Hospital Gwinnett – Lawrenceville, GA Preliminary Internal Medicine Resident	(2021-2022)
Vanderbilt Dermatology Translational Research Clinic Research Assistant	(2019-2021)
University of Arkansas for Medical Sciences (UAMS) – Little Rock, AR UAMS GPA: 4.0	(2016-2021)
University of Tulsa – Tulsa, OK BS Biology – Graduated Magna Cum Laude Women's Varsity Volleyball Athlete	(2012-2016)

Research Experience

Publications & Abstracts

- McNeil A, **Parks K**, Pogharian M, Cowen E, Lehman J, Lee S, Dawant BM, Tkaczyk E, "Evaluating AI models trained with varying amounts of expert feedback for chronic graft-versus-host disease skin assessment in photos of patients with diverse skin tones," *Journal of Clinical and Translational Science*, March 2025.
- McNeil A, **Parks K**, Cowen E, Lehman J, Pichard D, Shinohara M, Flowers M, Dawant BM, Tkaczyk E, "Improving AI Assessment of Cutaneous Chronic Graft-Versus-Host Disease using Unlabeled Patient Photographs," *Journal of Clinical and Translational Science*, April 2024.
- McNeil A, **Parks K**, Liu X, Jiang B, Coco J, McCool K, Fabbri D, Duhaime E, Dawant BM, Tkaczyk E, "Crowdsourcing Skin Demarcations of Chronic Graft-Versus-Host Disease in Patient Photographs: Training Versus Performance Study," *JMIR Dermatology*, December 2023.
- Parks K**, Liu X, Reasat T, Khera Z, Baker LX, Chen H, Dawant BM, Saknite I, Tkaczyk ER, "Non-expert markings of active chronic graft-versus-host disease photographs: optimal metrics of training effects," *Journal of Digital Imaging*, February 2023.
- McNeil A, **Parks K**, Liu X, Saknite I, Chen F, Reasat T, Wheless L, Dawant BM, Tkaczyk ER, "Artificial Intelligence Recognition of Cutaneous Chronic Graft-Versus-Host Disease by a Deep Learning Neural Network," *British Journal of Hematology*, 197:e93, 2022.
- Liu X, **Parks K**, Saknite I, Reasat T, Cronin A, Wheless L, Dawant BM, Tkaczyk ER, "Baseline Photos and Confident Annotation Improve Automated Detection of Cutaneous Graft-Versus-Host Disease," *Clinical Hematology International*, September 2021.
- Kern M, **Parks K**, Wong HK. "Nodule on the neck," *Cutis*, May 2021.
- Parks K**, Khera Z, Liu X, Reasat T, Baker LX, Jagasia MH, Dawant BM, Tkaczyk ER, "Redness has higher interrater reproducibility than body surface area in measuring extent of photographed cutaneous graft-versus-host disease" *Vanderbilt University Medical Center's 38th Annual Research Forum*, Virtual Meeting, June 2020.
- Parks K**, Khera Z, Liu X, Reasat T, Baker LX, Jagasia MH, Dawant BM, Tkaczyk ER, "Redness has higher interrater reproducibility than body surface area in measuring extent of photographed cutaneous graft-versus-host disease" Poster 847 at the *Society for Investigative Dermatology Annual Meeting*, Virtual Meeting, May 2020.

Presentations & Posters

- McNeil A, **Parks K**, Pogharian M, Cowen E, Lehman J, Lee S, Zhao A, Pavletic S, Saknite I, Coco J, Fabbri Daniel, Tkaczyk E, Dawant BM, "Improving U-Net segmentation of cutaneous chronic graft-versus-host disease in clinical photographs with semi-supervised training", Proc. SPIE 13407, Medical Imaging 2025: Computer-Aided Diagnosis, April 2025.
- Parks K**. "Photobiomodulation in Dermatology" Senior Grand Rounds Presentation, Vanderbilt University

Medical Center, Nashville, TN, December 2024.

- **Parks K.** “Vancomycin-Associated DRESS with HHV-6 Reactivation: Diagnostic and Therapeutic Challenges.” Grand Rounds – Morbidity & Mortality Conference, Vanderbilt University Medical Center, Nashville, TN, February 2024.
- **Parks K.** “JAK Inhibitors for Alopecia Areata: Case-Based Insights into Baricitinib and Ritlecitinib.” Grand Rounds Presentation, Vanderbilt University Medical Center, Nashville, TN, November 2023.
- **Parks K.** “Locally Advanced Basal Cell Carcinoma.” Grand Rounds – Morbidity & Mortality Conference, Vanderbilt University Medical Center, Nashville, TN, June 2023.
- McNeil A, **Parks K**, Liu X, Prentice K, Duhaime E, Dawant BM, Tkaczyk E, “Crowd-sourcing delineations of chronic graft-versus-host disease affected skin in patient photographs,” International Societies for Investigative Dermatology Meeting, Tokyo, Japan, May 2023.
- **Parks K**, “Photography in dermatology research,” *Biomedical Engineering 3890-03: mHealth: Mobile App Design, Class Lecture*, Vanderbilt University, Nashville, TN, September 2020.
- **Parks K**, “Non-invasive imaging of cutaneous cGVHD,” *George Washington University Virtual Clinicopathologic Correlation Conference*, August 2020.
- **Parks K**, Khera Z, Liu X, Reasat T, Baker L, Jagasia M, Dawant B, Tkaczyk ER, “Interrater reliability demarcating photographed cGVHD,” *UAMS Virtual Grand Rounds*, July 2020.
- **Parks K**, Khera Z, Liu X, Reasat T, Baker L, Jagasia M, Dawant B, Tkaczyk ER, “Interrater reliability demarcating photographed cGVHD,” *Southern Dermatology Consortium Resident Research Day*, Memphis, TN, February 2020.
- Reasat T, **Parks K**, Liu X, Tkaczyk E, “A Weakly Supervised Approach for the Segmentation of Skin Lesions in Chronic Graft-Versus-Host Disease,” *Vanderbilt Institute for Surgery and Engineering Symposium*, Nashville, TN, December 2019.
- **Parks K**, McCaslin L, “A Wart by Any Other Name is Just a Wart,” *Arkansas Dermatological Society Annual Meeting*, Little Rock, AR, April 2019.
- **Parks K**, “Treating Uncomplicated Cellulitis,” *UAMS Southwest Family Medicine Grand Rounds*, Texarkana, AR, February 2019.

Leadership Positions

Chief Resident, Nashville General Hospital Dermatology Clinic

Vanderbilt University Medical Center (2024–2025)

- Led clinical and operational development of a new dermatology service for underserved patients. Managed clinic logistics, biopsy follow-up systems, and EMR transition.

Student Access Liaison, NGH Dermatology Clinic

Vanderbilt University Medical Center (2024–2025)

- Established clinical exposure opportunities for Meharry students through NGH dermatology, supporting equity in dermatology education.

Program Evaluation Committee Representative

Vanderbilt Dermatology (2023–2025)

- Reviewed ACGME/internal survey data and contributed to program quality improvement planning.