

**Landon C. Power**  
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## EDUCATION

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2024-2028	Case Western Reserve University School of Medicine <ul style="list-style-type: none"><li>• Doctor of Medicine (expected)</li></ul>
2020-2024	Washington University in St. Louis <ul style="list-style-type: none"><li>• Bachelor of Arts in Biology: Neuroscience</li><li>• Secondary Major in Chinese Language and Culture Studies</li><li>• Minor in Biomedical Physics</li><li>• Honors Thesis Title: "White Matter Tract Integrity and Outcomes in Functional Networks Impacted in Children with Sickle Cell Anemia Compared to Healthy Controls"</li><li>• GPA: 4.00</li></ul>

## HONORS AND AWARDS

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2024	Graduated <i>summa cum laude</i> with Research Emphasis in Biology with Thesis and Distinction in East Asian Languages and Cultures, Washington University in St. Louis
2024	The Phi Beta Kappa Society, Washington University in St. Louis
2020-2024	Dean's List (8 semesters), Washington University in St. Louis
2022	Abstract Achievement Award, The American Society of Hematology (ASH) <ul style="list-style-type: none"><li>• 64<sup>th</sup> National Meeting</li></ul>

## WORK EXPERIENCE

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2019-2020	Fillmore County Hospital, Geneva, NE <ul style="list-style-type: none"><li>• Certified Nursing Assistant/Mental Health Technician (CNA/MHT)</li><li>• Assisted patients on medical/surgery floor with activities of daily living (ADLs)</li><li>• Assisted with ADLs and led therapy groups for patients in the Geriatric Behavioral Health Ward</li></ul>
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## RESEARCH EXPERIENCE

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2021-2024	Washington University School of Medicine, Pediatric Hematology/Oncology PI: Melanie Fields, MD, MSCI Project: "Sickle Cell Anemia Impacts Brain Age in Children." <ul style="list-style-type: none"><li>• Collected, processed, and quality-checked MRI data</li><li>• Compiled clinical data in SPSS software</li><li>• Co-authored one abstract for submission</li></ul> Project: "White Matter Tract Integrity and Outcomes in Functional Networks Impacted in Children with Sickle Cell Anemia Compared to Healthy Controls." <ul style="list-style-type: none"><li>• Collected, processed, and quality-checked MRI data</li><li>• Compiled and analyzed data in SPSS software</li><li>• Authored Senior Thesis for Latin Honors with Research Emphasis</li></ul>
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Project: “Localization of Silent Cerebral Infarcts in Children with Sickle Cell Disease Impacts Structural Disconnection.”

- Collected, processed, and quality-checked MRI data
- Compiled clinical data in SPSS software
- Co-authored one abstract and poster presentation

Project: “Reversibility of Cognitive Deficits and Functional Connectivity With Transfusion in Children With Sickle Cell Disease.”

- Collected cognitive testing and MRI data
- Processed and quality checked MRI data
- Compiled and analyzed data with SPSS software
- Co-authored one abstract and poster presentation as presenting author
- Co-authored one manuscript as first author
- Abstract Achievement Award at the 64<sup>th</sup> Annual American Society of Hematology (ASH) National Meeting, 2022

Project: “Cognitive Outcomes of Children and Adults with Sickle Cell Anemia: A Contemporary Cohort.”

- Collected cognitive testing data
- Compiled and analyzed data with SPSS software
- Co-authored one abstract and poster presentation as presenting author
- Co-authored one manuscript

Project: “GRAPES: Trivia game increases sickle cell disease knowledge in patients and providers and mitigates healthcare biases.”

- Recruited pediatric participants and nurses
- Completed study visits with online SCD educational tool
- Organized and compiled data
- Co-authored one oral abstract
- Co-authored one manuscript

## **INSTITUTIONAL SERVICE**

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2024	Executive Oath Writing Committee, CWRU SOM, Cleveland, OH
	<ul style="list-style-type: none"><li>• Appointed as student representative by peers</li><li>• Co-authored White Coat Ceremony Oath for the Class of 2028</li></ul>

## **COMMUNITY**

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2021-2024	Heritage of Grace Church Music Team Leader, Waterloo, IL
	<ul style="list-style-type: none"><li>• Played the keyboard, guitar, cajón, or cello and sang during church services</li><li>• Organized music sheets and led practices for the worship team</li></ul>
2022-2024	Casa de Salud Mental Health Intake Specialist, St. Louis, MO
	<ul style="list-style-type: none"><li>• Completed mental health assessments in both English and Spanish with clients over the phone</li><li>• Assisted with conversion of previous appointments to a new charting system</li></ul>

## LEADERSHIP

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2021-2024	Association of Christian Truth Seekers (ACTS), St. Louis, MO <ul style="list-style-type: none"><li>• Treasurer (2022-2024)</li><li>• Student Leader (2021-2024)</li><li>• Managed group budget and spending</li><li>• Attended bi-weekly leadership meetings to plan group activities</li><li>• Organized music teams to lead worship songs during large group meetings</li></ul>
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## BIBLIOGRAPHY

### Peer Reviewed Articles

1. Ouyang, A, Gadiraju, M, Gadiraju, V, **Power, LC**, Gadiraju, V, Liu, G, Guilliams, KP, Binkley, MM, Badawy, SM, Fields, ME. "GRAPES: Trivia game increases sickle cell disease knowledge in patients and providers and mitigates healthcare biases." *Pediatric blood & cancer*. 2022 April 19; 69(7). PMID: 35441455
2. **Power LC**, Mirro AE, Binkley MM, Wang J, Guilliams KP, Lewis JB, Ford AL, Shimony JS, An H, Lee JM, Fields ME. "Reversibility of Cognitive Deficits and Functional Connectivity With Transfusion in Children With Sickle Cell Disease." *Neurology*. 2024 May 28; 102(10). PMID: 38710015
3. Turner AD, **Power LC**, Yan Y, Binkley MM, Hood AM, Guilliams KP, Ford AL, King AA, Fields ME. "Cognitive Outcomes of Children and Adults with Sickle Cell Anaemia: A Contemporary Cohort." *British Journal of Haematology*. 9 July 2024. PMID: 38981601

### Oral Abstract Presentations

1. Ouyang, A, Gadiraju, M, Gadiraju, V, **Power, LC**, Gadiraju, V, Liu, G, Guilliams, KP, Binkley, MM, Badawy, SM, Fields, ME. "Grapes: Trivia Game Increases Sickle Cell Disease Knowledge in Patients and Providers and Mitigates Health Biases." American Society of Hematology (ASH) 63<sup>rd</sup> Annual Meeting; Atlanta, GA (2021). (Oral presentation was delivered by Amy Ouyang.)

### Poster Presentations

1. **Power LC**, Binkley MM, Guilliams KP, Beshears J, Hamed A, Hood AM, Lee JM, Ford AL, King AA, Fields ME. "Cognitive Dysfunction Worsens with Age in Patients with Sickle Cell Disease in the Modern Treatment Era." American Society of Hematology (ASH) 64<sup>th</sup> Annual Meeting; New Orleans, LA (2022).
2. **Power LC**, Mirro AE, Binkley MM, Guilliams KP, Lewis JB, Beshears J, Ford AL, Shimony JS, An H, Lee JM, Fields ME. "Functional Connectivity and Executive Function Abilities Strengthen without Change in Structural Connectivity after Transfusion in Children with Sickle Cell Disease." American Society of Hematology (ASH) 64<sup>th</sup> Annual Meeting; New Orleans, LA (2022). (I received the ASH Abstract Achievement Award for this abstract.)
3. Mirro AE, Binkley MM, **Power LC**, Guilliams KP, Fella S, DeBaun MR, Ford AL, Lee JM, Fields ME. "Localization of Silent Cerebral Infarcts in Children with Sickle Cell Disease Impacts Structural Disconnection." American Society of Hematology (ASH) 65<sup>th</sup> Annual Meeting; San Diego, CA (2023). (Poster presentation was given by Amy E. Mirro.)

**Languages:** conversational fluency in Spanish, proficient in Mandarin

**Interests:** reading (specifically English and French Classics), baking, learning languages

**Skills:** experience with FreeSurfer brain analysis and visualization software, proficiency with Microsoft Office and Google Workspace, statistical analysis skills with SPSS and R, and basic skills with MATrix LABoratory and Python