

EDUCATION

Chicago Medical School, Rosalind Franklin University of Medicine and Science
Doctor of Medicine

Expected May 2024

Georgetown University
Bachelor of Science, Healthcare Management and Policy
Concentration: Health Systems Administration
Honors: Cum Laude

May 2016

RESEARCH EXPERIENCE

Chicago Medical School Research Fellowship

06/2021 – Present

Advisor: Syed I. Khalid, MD

North Chicago, IL

Projects:

- Explored the outcomes of single-level anterior cervical discectomy and fusion in nonsmokers, active smokers, and smokers undergoing cessation therapy.
- Investigated postoperative complication rates following thoracolumbar scoliosis surgery in patients with normal bone mineral density, osteopenia, or osteoporosis. Analyzed the effects of pretreatment with anti-osteoporotic medications in patients with low bone mineral density.
- Investigated the relationship between social determinants of health and outcomes following single-level anterior cervical discectomy and fusion.
- Assessed the rates and time to fracture in patients undergoing laparoscopic vertical sleeve gastrectomy versus Roux-en-Y gastric bypass.
- Reviewed and analyzed existing literature on complication rates following cranioplasty with autologous bone, titanium mesh, hydroxyapatite, methyl methacrylate, or polyetheretherketone.
- Explored the outcomes of single-level lumbar fusion surgery in nonsmokers, active smokers, and smokers undergoing cessation therapy.

Responsibilities:

- Reviewed literature, extracted data from literature for meta-analysis, performed statistical analysis, interpreted results, drafted manuscripts, revised manuscripts, prepared manuscripts for submission.

RFUMS Interprofessional Community Clinic Research

01/2021 – Present

Advisor: Melissa Chen, MD

North Chicago, IL

- **Project:** Investigated the relationship between volunteering with a student-run free clinic and medical specialty choice.
- **Responsibilities:** Reviewed literature, designed the study, collected data, performing statistical analysis, drafting manuscript, developing poster presentations.

Georgetown University Hospital Department of Anesthesia

08/2015 – 12/2015

Research Intern

Washington, DC

- **Project:** Identify redundancies in the purchasing of supplies and determine a standard protocol for anesthesia cart stocking.
- **Responsibilities:** Collected and cleaned data, conducted interviews, analyzed data.
- **Outcome:** Discovered redundancies in supply purchasing. Uncovered provider safety concerns with current stocking procedures and identified a standard protocol for stocking anesthesia carts. Presented these results to hospital administrators along with recommendations.

PUBLICATIONS

- Khalid SI, Eldridge C, **Thomson KB**, et al. The Impact of Smoking and Smoking Cessation Interventions on Outcomes Following Single-Level Anterior Cervical Discectomy and Fusion Procedures. *Journal of Neurosurgery: Spine*. 2021. Submitted.
- Khalid SI, Nunna RS, **Thomson KB**, et al. The Role of Bone Mineral Density in Adult Spinal Deformity Patients Undergoing Corrective Surgery: A Matched Analysis. *Clinical Spine Surgery*. 2021. Submitted.
- Khalid SI, Eldridge C, **Thomson KB**, et al. The Influence of Social Determinants of Health on Single-level Anterior Cervical Discectomy and Fusion Outcomes. *Spine Journal*. 2021. Submitted.
- Khalid SI, Becerra AZ, **Thomson KB**, et al. Rates, Risks, and Time to Fracture in Patients Undergoing Laparoscopic Vertical Sleeve Gastrectomy vs. Roux-en-Y Gastric Bypass. *Annals of Surgery*. 2021. Submitted.
- Khalid SI, Shanker RM, **Thomson KB**, et al. Exploring the Relationship Between Smoking Cessation Therapy and Lumbar Fusion Outcomes: A Matched Analysis. *NEUROSURGERY*. 2021. Submitted.

POSTERS & PRESENTATIONS

- Thomson, K. A Safety Event and Root Cause Analysis Tool. Poster presented in November 2017 at National Capital Region Quality Symposium in Washington, DC.

PROFESSIONAL EXPERIENCE

ScribeAmerica 05/2019 – 07/2020
Medical Scribe Everett, WA

- Mastered navigation of electronic health records and an understanding of medical terminology.
- Adapted to the needs of a variety of providers.

Deloitte & Touche 10/2016 – 06/2019
Senior Consultant (08/2018 – 06/2019) Washington, DC
Consultant (10/2016 – 08/2018)

- Analyzed large data sets using R, Python, Excel (VBA), and Tableau to understand U.S. Military Health System quality and safety measures.
- Utilized various tests of statistical significance such as t-test, chi-square, multiple regression, and analysis of variance (ANOVA).
- Distilled key points of analyses and authored clear and concise reports.
- Presented results to clients in an accessible manner.
- Independently learned key programming languages and analytical techniques necessary for optimal data analysis.
- Awarded the Consultant of the Year Award for outstanding leadership, collaboration, teaching, and communication skills.

Lifelong Aids Alliance 05/2015 – 08/2015
Medical Case Management Intern Seattle, WA

- Managed database for organization that worked to address barriers to successful patient care such as food, housing, and transportation.

- Utilized existing database to find that more than 65% of medical information was out of date or missing. Requested data in batches directly from provider organizations. Updated medical data.
- Streamlined the process by which client data was kept up to date by introducing automation and templates. Reduced labor time by ~80%.

Office of Residential Living

08/2015 – 05/2016

Resident Assistant

Georgetown University

- Managed programming objectives of 14 employees, coordinating a total of ~25 programs/month.
- Addressed administrative issues, resident conflicts, and resident complaints.

LEADERSHIP & COMMUNITY SERVICE

Interprofessional Community Initiative (ICI)

11/2020 – Present

Research Panel Board Member

Chicago Medical School

- Automated a monthly data request to reduce labor requirements.
- Pulled data from electronic health record to support ICI operations.
- Catalogued current and historical ICI-related research for future Research Panels to reference.

Cardiology Interest Group

01/2021 – Present

President

Chicago Medical School

- Led a board of 6 members to organize extracurricular educational opportunities for students at Chicago Medical School, including: ECG workshop, cardiologist panel of speakers (planned).
- Managed the development of standard processes and organization of resources to aid future boards.

Ophthalmology Interest Group

01/2021 – Present

Secretary

Chicago Medical School

- Created promotional flyers and handled logistics of hosting events for the student body.

Goodwin House

01/2019 – 06/2019

Hospice Volunteer

Arlington, VA

- Reviewed medical history to inform interactions with patients. Provided social support to patients.

Virginia Mason Medical Center

05/2015 – 08/2015

Emergency Department Volunteer

Seattle, WA

- Ensured a maximum quality of service for a diverse group of patients by relaying information from providers to patients (and vice versa), providing material comfort, and managing the waiting room.

Swedish Hospital

05/2014 – 08/2014

Hospital Volunteer

Edmonds, WA

- Took inventory of equipment in patient rooms throughout the hospital, utilized the hospital EHR (Epic) to assist visitors with locating patients, and supported the transportation of patients.

Caring for Children with Cancer

09/2014 – 05/2016

Lombardi Cancer Center (LCC) Coordinator

Georgetown University

- Coordinated efforts to organize fundraising and charitable events.
- Volunteered at several events, including bake sales, talent shows and trick-or-treats with patients.

Amigos de las Americas

06/2010 – 08/2011

Project Leader, Educator, Fundraiser

Georgetown University

- Surveyed community members to identify needs, developed a plan to address those needs, then mobilized resources to assist in the construction of a water filtration system, a ceiling for the local school building, and a reforestation project.
- Taught grades 1-6 for 2 hours per day, 5 days per week for 8 weeks (in Spanish).
- Demonstrated leadership, communication, fundraising, teaching, and Spanish skills.

Other Extracurricular Experience: Health Executives of Georgetown University, Bioethics Discussion Group, Georgetown Pre-Med Society, Georgetown University Minority Association of Pre-Med Students (GUMAPS), Georgetown Individuals Vocal and Energetic for Service (GIVES).

SKILLS, HONORS, & AWARDS

- **Laboratory Skills:** Mass Spectrometry (MS), Nuclear Magnetic Resonance (NMR) Spectroscopy, Infrared (IR) Spectroscopy, Ultraviolet (UV) Spectroscopy, Basic chemistry laboratory skills (e.g., titration, distillation, chromatography, recrystallization), Small/Medium size animal dissection and research
- **Software/Programming:** VBA, R, Python, Tableau, Microsoft Office, SAS (training only), SQL (training only), Qlik Sense (training only)
- Basic/Intermediate Spanish
- Deloitte: Consultant of the Year award (April 2018)
- Georgetown Dean's List: Fall 2013; First Honors Distinction: Spring 2015, Fall 2015, Spring 2016
- University of Washington Dean's List: Fall 2012
- Mid-Atlantic College and University Housing Officers: Academic Excellence Award
- AP Scholar with Honors