Maximilian J. **Hemmrich**

(248) 703-9349 | maximilian.hemmrich@gmail.com | mhemmrich |
Maximilian-Hemmrich | 6 S Laflin St, Apt 907, Chicago, IL 60607

Education

Resident Physician, Otolaryngology-Head&Neck Surgery — *2021-current*
University of Chicago Medical Center — *Chicago, IL*

- Expected graduation June 2026
- Passed USMLE Step 3
- UPDATE THIS SECTION!
- GRAND ROUNDS TOPICS?

Doctor of Medicine (MD) — *2017 - 2021*
University of Chicago Pritzker School of Medicine — *Chicago, IL*

- USMLE Step 1 259 (4/2019) | Step 2 CK 270 (12/2020)
- Court and Sherry Cutting Scholar in Medical Education (2017) | Kappas Trust Fund Scholar (2018)
- Society of Hospital Medicine (SHM) Student Hospitalist Scholar (2018) | Abstract Reviewer for SHM 2020 & 2021 National Conferences
- Pritzker TECH leader - hosted 3-lead EKG building workshop, python coding/statistics course, hosted healthcare hackathon
- Washington Park Free Clinic - performed well-child visits, vaccinations, and sports physicals for uninsured patients
- South Side Science Scholars - taught after-school science lessons on nutrition, physics, and biology to 4th graders on South Side
- Chicago Youth Programs - weekly mentoring sessions to local high school students, assisted with job and college applications

Bachelor of Science in Engineering — *2012 - 2016*
University of Michigan College of Engineering — *Ann Arbor, MI*

- Major in Computer Science & Engineering | Minor in Biochemistry
- GPA 3.90 / 4.00 | Dean's List Fall 2012 - Winter 2016, James B. Angell Scholar

Professional Experience

Software Engineer - Developer Platforms & Services — *2016-2017*
Yahoo! Inc — *Sunnyvale, CA*

- Built internal Ruby gem server to reduce dependence on external systems
- Scaled centralized Github Enterprise instance to achieve 99.99% uptime

Research Projects

Oral Premalignancy Progression Prediction | PI: Alexander Pearson, MD, PhD — *2024-current*
University of Chicago Department of Hematology and Oncology — *Chicago, IL*

- ASDF

COPD Readmission Prediction | PI: Valerie Press, MD, MPH — *2018-2021*
University of Chicago Department of Medicine — *Chicago, IL*

- PI: Valerie Press, MD, MPH
- Built machine learning model using electronic health record data to predict risk of readmission after COPD excerbation
- Disseminated findings at international, national, and regional conferences
- Received Healthcare Delivery Science Award for research excellence at 2018 Pritzker Summer Research Forum
- Received Health Service Research Abstract Award at 2019 American Thoracic Society International Conference
- Manuscript submitted, undergoing review and edits

Head & Neck Cancer Recurrence Database | PI: Alexander Pearson, MD, PhD — *2020-2021*
University of Chicago Department of Medicine — *Chicago, IL*

- Built natural language processing classifier to extract tumor data from radiology notes
- Data will be combined with content extracted from pathology notes to build a recurrence database to assess efficacy of treatment modalities and determine predictors of recurrence

COVID-19 Natural History | PI: Renslow Sherer, MD — *2020-2021*
University of Chicago Department of Medicine — *Chicago, IL*

- Chart reviews of first 413 COVID patients at UChicago Medical Center
- Literature review for subgroup analysis of COVID in young and obese patients
- Poster presented at HIV Glasgow 2020 conference (virtual due to COVID)

Publications

asdfasdf (Jan 2026). *asdfasdf.* Submitted to asdf.

Chokkara, S., Bonomo, M., Kaskovich, S., HEMMRICH, M.J., Carey, K., Venable, L., Rojas, J.C., Churpek, M., Press, V. (Jul 2024). *Comparison of Chart Review and Administrative Data in Developing Predictive Models for Readmissions in Chronic Obstructive Pulmonary Disease.* Submitted to Chronic Obstructive Pulmonary Diseases: Journal of the COPD Foundation, undergoing revisions.

Rama, N., Wallance, A, HEMMRICH, M.J., Cipriani, N., Pasternak-Wise, O., Agrawal, N., Imbery, T. (Jun 2024). *Skull Base Plexiform Schwannoma of Possible Chorda Tympani Nerve Origin in a Three-year-old Patient.* Published in Otolaryngology Case Reports Vol. 31.

Bonomo, M., Hermsen, M., Kaskovich, S., HEMMRICH, M.J., Rojas, J.C., Carey, K., Venable, L., Churpek, M., Press, V. (Oct 2022). *Using Machine Learning to Predict Likelihood and Cause of Readmission After Hospitalization for Chronic Obstructive Pulmonary Disease Exacerbation.* Published in International Journal of Chronic Obstructive Pulmonary Disease.

Diaz, A., Chavez, J., HEMMRICH, M.J., Smith, H, Donington, J, Portugal, L. (Apr 2022). *Large non-functioning substernal parathyroid cyst: A case report and review of the literature.* Published in International Journal of Surgery Case Reports.

Oral Presentations

HEMMRICH, M.J., Churpek, M., Press, V. (Sep 2019). *Derivation and Validation of a COPD Readmission Risk Prediction Tool.* Presented by MJH at Society of General Internal Medicine Regional Meeting, Minneapolis, MN.

HEMMRICH, M.J., Churpek, M., Press, V. (Mar 2019). *Derivation and Validation of a COPD Readmission Risk Prediction Tool.* Presented by MJH at Society of Hospital Medicine National Conference, National Harbor, MD.

HEMMRICH, M.J., Churpek, M., Press, V. (Aug 2018). *Derivation of a COPD Readmission Risk Prediction Tool.* Presented by MJH at University of Chicago Pritzker Summer Research Forum, Chicago, IL.

Poster Presentations

Hermsen, M., Bonomo, M., HEMMRICH, M.J., Kaskovich, S., Churpek, M., Press, V. (Aug 2020). *Predicting 90-Day Readmission Risk Among Chronic Obstructive Pulmonary Disease Patients: Gold Standard Cohort vs. Administrative Data.* Presented by MH at American Thoracic Society International Conference, Virtual due to COVID.

Bonomo, M., Hermsen, M., Kaskovich, S., HEMMRICH, M.J., Churpek, M., Press, V. (Aug 2020). *Toward Personalized Care: The Value of Chart Reviewed Datasets in Predicting Cause of Readmission.* Presented by MB at American Thoracic Society International Conference, Virtual due to COVID.

Sherer, R., UChicago COVID ID Consult Service Study Group (Sep 2020). *Cancer, transplantation, and other immunocompromising conditions were not significantly associated with severe COVID-19 or death in hospitalized COVID-19 patients in Chicago.* Presented by RS at HIV Glasgow Congress, Virtual due to COVID.

HEMMRICH, M.J., Kaskovich, S., Churpek, M., Press, V. (May 2019). *Accuracy Comparison of a Machine Learning Readmission Prediction Model with HOSPITAL and PEARL Scores for COPD Inpatients.* Presented by MJH at American Thoracic Society International Conference, Dallas, TX.

Kaskovich, S., HEMMRICH, M.J., Churpek, M., Press, V. (May 2019). *Matching Patients with COPD to Personalized Care: A Novel Machine-Learning Tool to Predict Cause of 90-day Readmission.* Presented by SK at American Thoracic Society International Conference, Dallas, TX.

Skills

Languages	English (native) | German (native)
Tech Stack	Python (Pandas/Numpy) | C++ | Ruby | Typst
Personal Interests	Tennis | Weightlifting | Chess | Investing