

• **Name:** Patrick C. Mathias

• **Current Position:**

Vice Chair of Clinical Operations
Assistant Professor
Department of Laboratory Medicine and Pathology
University of Washington School of Medicine

• **Country:** USA

• **Educational Background:**

- BSE, Electrical Engineering, Duke University, US (2004)
- MS, Electrical and Computer Engineering, University of Illinois at Urbana-Champaign (2006)
- PhD, Bioengineering, University of Illinois at Urbana-Champaign (2010)
- MD, University of Illinois College of Medicine (2012)

• **Professional Experience:**

- Clinical Pathology Residency (2015)
- Clinical Informatics Fellowship (2016)
- Associate Medical Director of Informatics (2016-present)
- Medical Director of Point of Care Testing, Airlift NW (2018-present)

• **Professional Organizations:**

- American Association for Clinical Chemistry
- Association for Pathology Informatics
- American Medical Informatics Association
- College of American Pathologists
- Academy of Clinical Laboratory Physicians and Scientists

• **Main Scientific Publications:**

Mathias, P. C., J. H. Conta, E. Q. Konnick, D. L. Sternen, S. M. Stasi, B. L. Cole, M. L. Astion, and J. A. Dickerson (2016). Preventing Genetic Testing Order Errors With a Laboratory Utilization Management Program. *American Journal of Clinical Pathology* 146(2), 221.

Mathias, P. C., E. H. Turner, S. M. Scroggins, S. J. Salipante, N. G. Hoffman, C. C. Pritchard, and B. H. Shirts (2016). Applying Ancestry and Sex Computation as a Quality Control Tool in Targeted Next-Generation Sequencing. *American Journal of Clinical Pathology* 145(3), 308.

Mathias, P. C., N. Hendrix, W.-J. Wang, K. Keyloun, M. Khelifi, P. Tarczy-Hornoch, and B. Devine (2017). Characterizing Pharmacogenomic-Guided Medication Use With a Clinical Data Repository. *Clinical Pharmacology Therapeutics* 102(2), 340–348.

Ranjitkar, P., D. N. Greene, G. S. Baird, A. N. Hoofnagle, and P. C. Mathias (2017). Establishing evidence-based thresholds and laboratory practices to reduce inappropriate treatment of pseudohyperkalemia. *Clinical Biochemistry* 50(12), 663–669.

Mays, J. A., D. N. Greene, A. M. Merrill, and P. C. Mathias (2018). Evidence-Based Validation of Hemolysis Index Thresholds by Use of Retrospective Clinical Data. *The Journal of Applied Laboratory Medicine* 3(1), 109–114.

Mays, J. A. and P. C. Mathias (2019). Measuring the rate of manual transcription error in outpatient point-of-care testing. *Journal of the American Medical Informatics Association* 26 (3), 269–272.

Bryan, A., G. Pepper, M. H. Wener, S. L. Fink, C. Morishima, A. Chaudhary, K. R. Jerome, P. C. Mathias, and A. L. Greninger (2020). Performance Characteristics of the Abbott Architect SARS-CoV-2 IgG Assay and Seroprevalence in Boise, Idaho. *Journal of Clinical Microbiology*. eprint: <https://jcm.asm.org/content/early/2020/05/07/JCM.00941-20.full.pdf>.

Grange, E., E. Neil, M. Stoffel, A. Singh, E. Tseng, K. Resco-Summers, B. Fellner, J. Lynch, P. C. Mathias, K. Mauritz-Miller, P. Sutton, and M. Leu (2020). Responding to COVID-19: The UW Medicine Information Technology Services Experience. *Applied Clinical Informatics* 11(02), 265–275.

Mays, J. A., A. L. Greninger, K. R. Jerome, J. B. Lynch, and P.C. Mathias (2020). Preprocedural Surveillance Testing for SARS-CoV-2 in an Asymptomatic Population in the Seattle Region Shows Low Rates of Positivity. *Journal of Clinical Microbiology* 58(8). Ed. by Y.-W. Tang. eprint: <https://jcm.asm.org/content/58/8/e01193-20.full.pdf>.

Perchetti, G. A., K.-W. Sullivan, G. Pepper, M.-L. Huang, N. Breit, P.C. Mathias, K. R. Jerome, and A. L. Greninger (2020). Pooling of SARS-CoV-2 samples to increase molecular testing throughput. *Journal of Clinical Virology* 131, 104570.

Winston-McPherson, G. N., P.C. Mathias, C. M. Lockwood, and D. N. Greene (2020). Evaluation of Patient Demographics in Clinical Cancer Genomic Testing. *The Journal of Applied Laboratory Medicine* 6(1), 119–124. eprint: <https://academic.oup.com/jalm/article-pdf/6/1/119/35721824/jfaa219.pdf>.

Bosch, D. E., P.C. Mathias, N. Krumm, A. Bryan, F. C. Fang, and A. L. Greninger (2021). Elevated white blood cell count does not predict *Clostridium difficile* nucleic acid testing results. *Clinical Infectious Diseases*. ciab106. eprint: <https://academic.oup.com/cid/advance-article-pdf/doi/10.1093/cid/ciab106/36224140/ciab106.pdf>.