



## Zachary T Renfro

- MD Student with Scholarly Concentration in Clinical Research / Immunology, expected graduation Spring 2026
- Masters Student in Epidemiology and Clinical Research, admitted Autumn 2023

### Bio

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#### BIO

Zachary studied biology at the University of Arkansas where he researched the impact of temperature on macrophage cytokine production across animal species as well as the neural basis of saccadic mislocalization. After graduation, he worked at the Arkansas Department of Health where he developed and implemented Arkansas' first plan to eliminate tuberculosis. Additionally he researched the contribution of epigenetic regulation on the susceptibility, development, and maintenance of chronic pain at the University of Arkansas for Medical Sciences and participated in the front line response to the COVID-19 pandemic.

At Stanford, he is enrolled in the MD and MS in epidemiology and clinical research programs. His current research interests include emerging infectious diseases, immunological response to infection, queer health broadly and queer sexual health specifically.

#### EDUCATION AND CERTIFICATIONS

- Bachelor of Science, University of Arkansas Fayetteville , Biology (2019)

### Publications

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#### PUBLICATIONS

- **Flush with data: harnessing emergency department wastewater as an innovative approach for surveillance of infectious diseases.** *American journal of epidemiology*  
Renfro, Z. T., Zulli, A., Parsonnet, J., Boehm, A., Bennett, C. L.  
2026
- **Pilot ED Wastewater Surveillance During the 2024-2025 Respiratory Virus Season.** *JAMA network open*  
Renfro, Z., Zulli, A., Levy, V., Nawy, R., Mercado, A., Jong, S., Salinas, J. L., Eastwood, H., Below, C., Boehm, A. B., Parsonnet, J., Bennett, C. L.  
2026; 9 (1): e2555023
- **A Venue-Based Approach to Asymptomatic Mpox Screening and Doxy-PEP Provision: From Outbreak to Outreach, San Francisco, California, 2023–2024.** *American journal of public health*  
Contag, C. A., Renfro, Z. T., Mukund, A. X., Quint, M., Amitin, S., Levy, V., Hammack, P. L., Pinsky, B. A., Laniakea, B.  
2025: e1-e5
- **Identification of Regulatory Elements in Primary Sensory Neurons Involved in Trauma-Induced Neuropathic Pain.** *Molecular neurobiology*  
Stephens, K. E., Moore, C., Vinson, D. A., White, B. E., Renfro, Z., Zhou, W., Ji, Z., Ji, H., Zhu, H., Guan, Y., Taverna, S. D.  
2023
- **Two cases of MPXV infection during pregnancy in heterosexual cisgender women without classic cutaneous lesions, Northern California, 2022.** *IDCases*  
Renfro, Z. T., Contag, C. A., Lu, J., Solis, D., Huang, C., Sahoo, M. K., Yamamoto, F., Mah, J., Jones, M. S., Lin, J., Levy, V., Pinsky, B. A.

2023; 33: e01881

- **Prevalence of Mpox (Monkeypox) in patients undergoing STI screening in northern California, April-September 2022.** *Journal of clinical virology : the official publication of the Pan American Society for Clinical Virology*  
Contag, C. A., Renfro, Z. T., Lu, J., Shen, S., Karan, A., Solis, D., Huang, C., Sahoo, M. K., Yamamoto, F., Jones, M. S., Lin, J., Levy, V., Pinsky, et al  
2023; 164: 105493
- **Retrospective Screening of Clinical Samples for Monkeypox Virus DNA, California, USA, 2022.** *Emerging infectious diseases*  
Contag, C. A., Lu, J., Renfro, Z. T., Karan, A., Salinas, J. L., Khan, M., Solis, D., Sahoo, M. K., Yamamoto, F., Pinsky, B. A.  
2023; 29 (4): 848-850
- **CCAAT enhancer binding protein gamma (C/EBP-gamma): An understudied transcription factor.** *Advances in biological regulation*  
Renfro, Z., White, B. E., Stephens, K. E.  
2022; 84: 100861
- **Transcription factor affinity at dorsal root ganglion enhancers after nerve injury** *The Journal of Pain*  
Stephens, K., Moore, C., Vinson, D., White, B. E., Renfro, Z., Zhou, W., Ji, H., Zhu, H., Guan, Y., Taverna, S.  
2022; 23 (5)
- **Global gene expression and chromatin accessibility of the peripheral nervous system in animal models of persistent pain** *JOURNAL OF NEUROINFLAMMATION*  
Stephens, K. E., Zhou, W., Renfro, Z., Ji, Z., Ji, H., Guan, Y., Taverna, S. D.  
2021; 18 (1): 185
- **Dynamics of global gene expression and chromatin accessibility of the peripheral nervous system in animal models of persistent pain** *The Journal of Neuroinflammation*  
Stephens, K., Zhou, W., Renfro, Z., Zhicheng, J., Hongkai, J., Guan, Y., Taverna, S.  
2021; 22 (5)
- **A plan to eliminate tuberculosis: it's past time.** *The Journal of the Arkansas Medical Society*  
Renfro, Z., Mukasa, L., Patil, N., Maturino, J., Wheeler, G., Bates, J.  
2019; 116 (9)