

# Ziyan Yin

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## EDUCATION

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- Ph.D. student, Statistics** *August 2018 - Present*  
Temple University, Fox School of Business *Philadelphia, PA*
- M.A., Biostatistics** *February 2016*  
University at Buffalo, State University of New York *Buffalo, NY*  
*Thesis Title:* Multiple Equivalence Tests on the Site Effects of Microarray Quality Control (MAQC) projects.
- B.S., Statistics** *June 2013*  
University of Science and Technology of China *Hefei, Anhui, China*

## EXPERIENCE

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- Research Assistant** *August 2018 - Present*  
Department of Statistics, Temple University *Philadelphia, PA*
  - Literature review, numerical implementation and methodological development.
- Biostatistician** *March 2016 - July 2018*  
Division of Biostatistics, Medical College of Wisconsin *Milwaukee, WI*
  - Provided statistical support for Primary Immune Deficiency Treatment Consortium (PIDTC), including data cleaning, univariate description, survival analysis, ROC analysis, statistical reporting, etc.
  - Collaborated with biomedical investigators across a variety of researches, from experimental designs, observational studies and clinical trials to evaluation of policy impacts in national databases.
  - Developed and maintained SAS and R packages for statistical computing and reporting.
- Research Assistant (Pre-Master Trainee)** *September 2014 - February 2016*  
Department of Biostatistics, SUNY UB *Buffalo, NY*
  - Applied equivalence tests with FDR control to detect cross-site differentially expressed genes in MAQC-I and MAQC-III (SEQC) studies.
  - Developed and optimized polynomial regression models to evaluate the association between weather patterns and the numbers of Escherichia/total coli in a water well study in Indonesia.
- Research Assistant** *May 2014 - September 2014*  
Shandong Steel & Iron Group Co., Ltd *Jinan, Shandong, China*
  - Built linear models to estimate the uncertainty of Sulfur in certain alloy steel.
  - Developed a GUI for data manipulation and analysis with C#.

## PUBLICATIONS

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### Peer-reviewed Papers

1. Haddad, E., Logan, B. R., Griffith, L. M., Buckley, R. H., Parrot, R. E., Prockop, S. E., Small, T. N., Chaisson, J., Dvorak, C. C., Murnane, M., Kapoor, N., Abdel-Azim, H., Hanson, I. C., Martinez, C., Bleasing, J. J., Chandra, S., Smith, A. R., Cavanaugh, M. E., Jyonouchi, S., Sullivan, K. E., Burroughs, L., Skoda-Smith, S., Haight, A. E., Tumlin, A. G., Quigg, T. C., Taylor, C., Dávila Saldaña, B. J., Keller, M. D., Seroogy, C. M., Desantes, K. B., Petrovic, A., Leiding, J. W., Shyr, D. C., Decaluwe, H., Teira, P., Gillio, A. P., Knutsen, A., Moore, T. B., Kletzel, M., Craddock, J. A., Aquino, V., Davis, J. H., Yu, L. C., Cuvelier, G. D., Bednarski, J. J., Goldman, F. D., Kang, E. M., Shereck, E., Porteus, M. H., Connelly, J. A., Fleisher, T. A., Malech,

- H. L., Shearer, W. T., Szabolcs, P., Thakar, M. S., Vander Lugt, M. T., Heimall, J., **Yin, Z.**, Pulsipher, M. A., Pai, S.-Y., Kohn, D. B., Puck, J. M., Cowan, M. J., O'Reilly, R. J., and Notarangelo, L. D. SCID genotype and 6-month post-transplant CD4 count predict survival and immune recovery: a PIDTC retrospective study. *Blood*, 2018.
2. Silva, J. P., Berger, N. G., **Yin, Z.**, Liu, Y., Tsai, S., Christians, K. K., Clarke, C. N., Mogal, H., and Gamblin, T. C. The effect of prior upper abdominal surgery on outcomes after liver transplantation for hepatocellular carcinoma: An analysis of the database of the organ procurement transplant network. *Surgery*, 163(5):1028 – 1034, 2018.
  3. Silva, J. P., Berger, N. G., **Yin, Z.**, Liu, Y., Tsai, S., Christians, K. K., Clarke, C. N., Mogal, H., and Gamblin, T. C. Minimally invasive hepatectomy conversions: an analysis of risk factors and outcomes. *HPB*, 20(2):132 – 139, 2018.
  4. Amin, R., Knezevich, M., Lingongo, M., Szabo, A., **Yin, Z.**, Oldham, K. T., Calkins, C. M., Sato, T. T., and Arca, M. J. Long-term quality of life in neonatal surgical disease. *Annals of surgery*, July 2018.
  5. Wang, T. S., Kline, G., Yen, T. W., **Yin, Z.**, Liu, Y., Rilling, W., So, B., Findling, J. W., Evans, D. B., and Pasiaka, J. L. A multi-institutional comparison of adrenal venous sampling in patients with primary aldosteronism: Caution advised if successful bilateral adrenal vein sampling is not achieved. *World Journal of Surgery*, 42(2):466–472, Feb 2018.
  6. Xu, H., Zhang, H., Wang, C., Lv, C., **Yin, Z.**, and Wang, Y. Local phonophoresis of traditional Chinese herbs: a good assistant for analgesia after total knee arthroplasty. *International Journal of Clinical and Experimental Medicine*, 10(8):12426–12432, 2017.
  7. Heimall, J., Logan, B. R., Cowan, M. J., Notarangelo, L. D., Griffith, L. M., Puck, J. M., Kohn, D. B., Pulsipher, M. A., Parikh, S., Martinez, C., Kapoor, N., O'Reilly, R., Boyer, M., Pai, S.-Y., Goldman, F., Burroughs, L., Chandra, S., Kletzel, M., Thakar, M., Connelly, J., Cuvelier, G., Davila, B., Shereck, E., Knutsen, A., Sullivan, K. E., DeSantes, K., Gillio, A., Haddad, E., Petrovic, A., Quigg, T., Smith, A. R., Stenger, E., **Yin, Z.**, Shearer, W. T., Fleisher, T., Buckley, R. H., and Dvorak, C. C. Immune reconstitution and survival of 100 scid patients post hematopoietic cell transplant: A pidtc natural history study. *Blood*, 2017.
  8. Landisch, R. M., **Yin, Z.**, Christensen, M., Szabo, A., and Wagner, A. J. Outcomes of gastroschisis early delivery: A systematic review and meta-analysis. *Journal of Pediatric Surgery*, 2017.
  9. Thompson, J., **Yin, Z.**, D'Souza, A., Fenske, T., Hamadani, M., Hari, P., Rizzo, J. D., Pasquini, M., Saber, W., Shah, N., Shaw, B. E., Shahir, K., Banerjee, A., and Drobyski, W. R. Etanercept and corticosteroid therapy for the treatment of late-onset idiopathic pneumonia syndrome. *Biology of Blood and Marrow Transplantation*, 23(11):1955 – 1960, 2017.
  10. Böhlen, M., Maharika, I., **Yin, Z.**, and Hakim, L. Biosensing in the Kampung. In *2014 International Conference on Intelligent Environments*, pages 23–30, 2014.

## Abstracts

1. Venkatesan, T., Porcelli, A. J., Matapurkar, A., Hahn, B., Szabo, A., **Yin, Z.**, and Wieloch, L. 47 - an integrative, patient-centered model of care using meditation and care coordination improves quality of life and coping strategies in cyclic vomiting syndrome: A prospective randomized controlled trial. *Gastroenterology*, 154(6, Supplement 1):S–16, 2018.
2. Leiding, J. W., Logan, B. R., **Yin, Z.**, Arbuckle, E., Bleesing, J. J., Sullivan, K. E., Heimall, J., Burroughs, L., Skoda-Smith, S., Chandrakasan, S., Yu, L. C., Oshrine, B. R., Cuvelier, G. D. E., Thakar, M., Chen, K., Shenoy, S., Saldana, B. D., Weinacht, K. G., Joshi, A., Boulad, F., Quigg, T. C., Dvorak, C. C., Knutsen, A., Chong, H., Miller, H. K., de la Morena, M. T., DeSantes, K., Cowan, M. J., Notarangelo, L. D., Kohn, D. B., Pai, S.-Y., Stenger, E., Puck, J., Kapoor, N., Pulsipher, M. A., Haddad, E., Griffith, L. M., Shearer, W., Malech, H. L., Parikh, S., Marsh, R. A., and Kang, E. M. Resolution of cgd related colitis after allogeneic

hematopoietic stem cell transplantation in patients with chronic granulomatous disease; early results from the 6903 study of the primary immune deficiency treatment consortium (pidtc). *Biology of Blood and Marrow Transplantation*, 24(3):S80–S81, Mar 2018.

3. Knight, J., Costanzo, E. S., Singh, S., **Yin, Z.**, Szabo, A., Hillard, C., Rizzo, J. D., D’Souza, A., Coe, C. L., and Drobyski, W. R. Pre-transplant tocilizumab is associated with more severe depression, anxiety, pain, and sleep following allogeneic hematopoietic cell transplantation. *Biology of Blood and Marrow Transplantation*, 24(3):S260–S261, Mar 2018.
4. Wahlstrom, J., Bender, H., **Yin, Z.**, Logan, B., Rajalingam, R., Dvorak, C. C., Haddad, E., and Cowan, M. J. Missing KIR ligand in the host-versus-graft (HvG) direction is associated with second cell infusion in children with NK+ severe combined immunodeficiency (SCID) receiving hematopoietic stem cell transplantation. *The Journal of Immunology*, 198(1 Supplement):82.1–82.1, 2017.
5. Haddad, E., Logan, B. R., Griffith, L. M., Buckley, R. H., Parrott, R. E., Dvorak, C. C., Puck, J., Prockop, S. E., Kapoor, N., Abdel-Azim, H., Hanson, I. C., Martinez, C., Bleasing, J., Chandra, S., Smith, A. R., Pai, S.-Y., Jyonouchi, S., Sullivan, K., Haight, A. E., Tumlin, A. G., Burroughs, L., Saldana, B. J. D., Seroogy, C., Petrovic, A., Shyr, D. C., Quigg, T. C., Gillio, A. P., Decaluwe, H., Kletzel, M., Knutsen, A., Moore, T. B., Aquino, V., Davis, J. H., Yu, L. C., Kang, E. M., Schroeder, M. L., Shereck, E., Craddock, J. A., Connelly, J. A., Bednarski, J. J., Goldman, F., Porteus, M. H., Fleisher, T., Kohn, D. B., Malech, H. L., Pulsipher, M. A., Shearer, W., Szabolcs, P., Thakar, M., Vander Lugt, M., **Yin, Z.**, Notarangelo, L. D., Cowan, M. J., and O’Reilly, R. J. Genotype, phenotype and T cell counts at one year predict survival and long term immune reconstitution after transplantation in severe combined immune deficiency (SCID)-the primary immune deficiency treatment consortium (PIDTC). *Biology of Blood and Marrow Transplantation*, 23(3):S133–S134, 2017.

## COMPUTER SKILLS

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*Operating Systems:* Unix/Linux, MS Windows.

*Programming languages:* SAS, R, Python, C++, SQL, L<sup>A</sup>T<sub>E</sub>X, Vimscript.

## MEMBERSHIP

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American Statistical Association (ASA)