



Roxana Daneshjou

- Clinical Scholar, Dermatology
- Postdoctoral Scholar, Biomedical Data Sciences

CLINICAL OFFICES

- **General Dermatology Clinic at Hoover Pavilion**

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Bio

BIO

I am interested in bridging new technologies such as genomics and machine learning with clinical medicine. I am also interested in the use of Twitter for scientific communication and medical education. I am on Twitter: @RoxanaDaneshjou.

CLINICAL FOCUS

- Dermatology

ACADEMIC APPOINTMENTS

- Clinical Scholar, Dermatology

HONORS AND AWARDS

- Stanford Medicine TEDMED Student Ambassador, TEDMED (2015)
- Resident Research Symposium 2019 Everett C. Fox Memorial Award, American Academy of Dermatology (2019)
- Paul and Daisy Soros Fellowship for New Americans, Paul and Daisy Soros Fellowship for New Americans (2014-2016)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Social Media Editor, Journal of Investigative Dermatology (2020 - present)
- Editorial Trainee, British Journal of Dermatology (2020 - 2020)
- Board of Trustees Member, Paul and Daisy Soros Fellowship for New Americans (2019 - present)

PROFESSIONAL EDUCATION

- Board Certification: Dermatology, American Board of Dermatology (2020)
- Medical Education: Stanford University School of Medicine (2016) CA
- Residency: Stanford University Dermatology Residency (2020) CA
- Internship: Kaiser Permanente Santa Clara Internal Medicine Residency (2017) CA

- Doctor of Medicine, Stanford University , MED-MD (2016)
- Doctor of Philosophy, Stanford University , GENE-PHD (2016)
- Bachelor of Science, Rice University , Bioengineering (2009)

Publications

PUBLICATIONS

- **Lack of Transparency and Potential Bias in Artificial Intelligence Data Sets and Algorithms: A Scoping Review.** *JAMA dermatology*
Daneshjou, R., Smith, M. P., Sun, M. D., Rotemberg, V., Zou, J.
2021
- **Research Techniques Made Simple: Scientific Communication using Twitter.** *The Journal of investigative dermatology*
Daneshjou, R., Shmuylovich, L., Grada, A., Horsley, V.
2021; 141 (7): 1615
- **How medical AI devices are evaluated: limitations and recommendations from an analysis of FDA approvals.** *Nature medicine*
Wu, E., Wu, K., Daneshjou, R., Ouyang, D., Ho, D. E., Zou, J.
2021
- **Raising the bar for Randomized Trials involving Artificial Intelligence: The SPIRIT-AI and CONSORT-AI Guidelines.** *The Journal of investigative dermatology*
Taylor, M., Liu, X., Denniston, A., Esteva, A., Ko, J., Daneshjou, R., Chan, A., SPIRIT-AI and CONSORT-AI Working Group
2021
- **How to evaluate deep learning for cancer diagnostics - factors and recommendations.** *Biochimica et biophysica acta. Reviews on cancer*
Daneshjou, R., He, B., Ouyang, D., Zou, J.
2021: 188515
- **Diversity, Race, and Health** *MED*
Adamson, A. S., Essien, U., Ewing, A., Daneshjou, R., Hughes-Halbert, C., Ojikutu, B., Davis, M. B., Fox, K., Warner, E.
2021; 2 (1): 6-10
- **TrueImage: A Machine Learning Algorithm to Improve the Quality of Telehealth Photos.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
Vodrahalli, K., Daneshjou, R., Novoa, R. A., Chiou, A., Ko, J. M., Zou, J.
2021; 26: 220–31
- **Pernio-like eruption associated with COVID-19 in skin of color.** *JAAD case reports*
Daneshjou, R., Rana, J., Dickman, M., Yost, J. M., Chiou, A., Ko, J.
2020; 6 (9): 892–97
- **Twitter Journal Clubs: Medical Education in the Era of Social Media.** *JAMA dermatology*
Daneshjou, R., Adamson, A. S.
2020
- **Social Media: A New Tool for Scientific Engagement.** *The Journal of investigative dermatology*
Shmuylovich, L. n., Grada, A. n., Daneshjou, R. n.
2020; 140 (10): 1884–85
- **Genome-wide meta-analysis identifies eight new susceptibility loci for cutaneous squamous cell carcinoma.** *Nature communications*
Sarin, K. Y., Lin, Y. n., Daneshjou, R. n., Ziyatdinov, A. n., Thorleifsson, G. n., Rubin, A. n., Pardo, L. M., Wu, W. n., Khavari, P. A., Uitterlinden, A. n., Nijsten, T. n., Toland, A. E., Olafsson, et al
2020; 11 (1): 820
- **Increasing the visibility of dermatologic research contributions by women and underrepresented minorities.** *Journal of the American Academy of Dermatology*
Siller, A. n., Daneshjou, R. n., Lipoff, J. B.
2020

- **Session Intro: ARTIFICIAL INTELLIGENCE FOR ENHANCING CLINICAL MEDICINE.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
Daneshjou, R., Kidzinski, L., Afanasiev, O., Chen, J. H.
2020; 25: 1–6
- **Predicting venous thromboembolism risk from exomes in the Critical Assessment of Genome Interpretation (CAGI) challenges.** *Human mutation*
McInnes, G., Daneshjou, R., Katsonis, P., Lichtarge, O., Srinivasan, R. G., Rana, S., Radivojac, P., Mooney, S. D., Pagel, K. A., Stambouliau, M., Jiang, Y., Capriotti, E., Wang, et al
2019
- **Pharmacogenomics in dermatology: tools for understanding gene-drug associations.** *Seminars in cutaneous medicine and surgery*
Daneshjou, R., Huddart, R., Klein, T. E., Altman, R. B.
2019; 38 (1): E19–E24
- **Pharmacogenomics and big genomic data: from lab to clinic and back again.** *Human molecular genetics*
Lavertu, A., McInnes, G., Daneshjou, R., Whirl-Carrillo, M., Klein, T. E., Altman, R. B.
2018; 27 (R1): R72–R78
- **Pharmacogenomics and big genomic data: from lab to clinic and back again** *HUMAN MOLECULAR GENETICS*
Lavertu, A., McInnes, G., Daneshjou, R., Whirl-Carrillo, M., Klein, T. E., Altman, R. B.
2018; 27 (R1): R72–R78
- **Working toward precision medicine: Predicting phenotypes from exomes in the Critical Assessment of Genome Interpretation (CAGI) challenges** *HUMAN MUTATION*
Daneshjou, R., Wang, Y., Bromberg, Y., Bovo, S., Martelli, P. L., Babbi, G., Di Lena, P., Casadio, R., Edwards, M., Gifford, D., Jones, D. T., Sundaram, L., Bhat, et al
2017; 38 (9): 1182–92
- **Cohort-specific imputation of gene expression improves prediction of warfarin dose for African Americans.** *Genome medicine*
Gottlieb, A. n., Daneshjou, R. n., DeGorter, M. n., Bourgeois, S. n., Svensson, P. J., Wadelius, M. n., Deloukas, P. n., Montgomery, S. B., Altman, R. B.
2017; 9 (1): 98
- **Population-specific single-nucleotide polymorphism confers increased risk of venous thromboembolism in African Americans.** *Molecular genetics & genomic medicine*
Daneshjou, R., Cavallari, L. H., Weeke, P. E., Karczewski, K. J., Drozda, K., Perera, M. A., Johnson, J. A., Klein, T. E., Bustamante, C. D., Roden, D. M., Shaffer, C., Denny, J. C., Zehnder, et al
2016; 4 (5): 513–520
- **ClinGen - The Clinical Genome Resource** *NEW ENGLAND JOURNAL OF MEDICINE*
Rehm, H. L., Berg, J. S., Brooks, L. D., Bustamante, C. D., Evans, J. P., Landrum, M. J., Ledbetter, D. H., Maglott, D. R., Martin, C. L., Nussbaum, R. L., Plon, S. E., Ramos, E. M., Sherry, et al
2015; 372 (23): 2235–2242
- **PharmGKB summary: very important pharmacogene information for CYP4F2** *PHARMACOGENETICS AND GENOMICS*
Alvarellos, M. L., Sangkuhl, K., Daneshjou, R., Whirl-Carrillo, M., Altman, R. B., Klein, T. E.
2015; 25 (1): 41–47
- **Genetic variant in folate homeostasis is associated with lower warfarin dose in African Americans** *BLOOD*
Daneshjou, R., Gamazon, E. R., Burkley, B., Cavallari, L. H., Johnson, J. A., Klein, T. E., Limdi, N., Hillenmeyer, S., Percha, B., Karczewski, K. J., Langaee, T., Patel, S. R., Bustamante, et al
2014; 124 (14): 2298–2305
- **Genetic variant in folate homeostasis is associated with lower warfarin dose in African Americans.** *Blood*
Daneshjou, R., Gamazon, E. R., Burkley, B., Cavallari, L. H., Johnson, J. A., Klein, T. E., Limdi, N., Hillenmeyer, S., Percha, B., Karczewski, K. J., Langaee, T., Patel, S. R., Bustamante, et al
2014; 124 (14): 2298–2305
- **Targeted Exon Capture and Sequencing in Sporadic Amyotrophic Lateral Sclerosis** *PLOS GENETICS*
Couthouis, J., Raphael, A. R., Daneshjou, R., Gitler, A. D.
2014; 10 (10)

- **Targeted exon capture and sequencing in sporadic amyotrophic lateral sclerosis.** *PLoS genetics*
Couthouis, J., Raphael, A. R., Daneshjou, R., Gitler, A. D.
2014; 10 (10)
- **Genotype-Guided Dosing of Vitamin K Antagonists** *NEW ENGLAND JOURNAL OF MEDICINE*
Daneshjou, R., Klein, T. E., Altman, R. B.
2014; 370 (18): 1762–63
- **Path-scan: a reporting tool for identifying clinically actionable variants.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
Daneshjou, R., Zappala, Z., Kukurba, K., Boyle, S. M., Ormond, K. E., Klein, T. E., Snyder, M., Bustamante, C. D., Altman, R. B., Montgomery, S. B.
2014; 19: 229-240
- **PATH-SCAN: A REPORTING TOOL FOR IDENTIFYING CLINICALLY ACTIONABLE VARIANTS**
Daneshjou, R., Zappala, Z., Kukurba, K., Boyle, S. M., Ormond, K. E., Klein, T. E., Snyder, M., Bustamante, C. D., Altman, R. B., Montgomery, S. B., Altman, R. B., Dunker, A. K., Hunter, et al
WORLD SCIENTIFIC PUBL CO PTE LTD.2014: 229–40
- **Genetic variants associated with warfarin dose in African-American individuals: a genome-wide association study.** *Lancet*
Perera, M. A., Cavallari, L. H., Limdi, N. A., Gamazon, E. R., Konkashbaev, A., Daneshjou, R., Pluzhnikov, A., Crawford, D. C., Wang, J., Liu, N., Tatonetti, N., Bourgeois, S., Takahashi, et al
2013; 382 (9894): 790-796
- **Pathway analysis of genome-wide data improves warfarin dose prediction** *BMC GENOMICS*
Daneshjou, R., Tatonetti, N. P., Karczewski, K. J., Sagreiya, H., Bourgeois, S., Drozda, K., Burmester, J. K., Tsunoda, T., Nakamura, Y., Kubo, M., Tector, M., Limdi, N. A., Cavallari, et al
2013; 14
- **Pathway analysis of genome-wide data improves warfarin dose prediction.** *BMC genomics*
Daneshjou, R., Tatonetti, N. P., Karczewski, K. J., Sagreiya, H., Bourgeois, S., Drozda, K., Burmester, J. K., Tsunoda, T., Nakamura, Y., Kubo, M., Tector, M., Limdi, N. A., Cavallari, et al
2013; 14: S11-?
- **Chapter 7: Pharmacogenomics** *PLOS COMPUTATIONAL BIOLOGY*
Karczewski, K. J., Daneshjou, R., Altman, R. B.
2012; 8 (12)
- **Data-Driven Prediction of Drug Effects and Interactions** *SCIENCE TRANSLATIONAL MEDICINE*
Tatonetti, N. P., Ye, P. P., Daneshjou, R., Altman, R. B.
2012; 4 (125)
- **Bioinformatics challenges for personalized medicine** *BIOINFORMATICS*
Fernald, G. H., Capriotti, E., Daneshjou, R., Karczewski, K. J., Altman, R. B.
2011; 27 (13): 1741-1748