

# Stanford

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## Albert Sean Chiou, MD, MBA

Clinical Associate Professor, Dermatology

### CLINICAL OFFICES

- **Stanford Dermatology**

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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### Bio

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#### BIO

Dr. Albert Chiou is a Clinical Associate Professor of Dermatology. He earned his Bachelor of Science from Stanford University and completed an MPhil in Chemistry, by research, from the University of Cambridge, where he was a Gates Cambridge Scholar. He received his medical degree from Harvard Medical School, where he also completed a joint business degree. Dr. Chiou performed his dermatology residency at Stanford University and served as Chief Resident in his final year. His clinical focus is general medical dermatology, including atopic dermatitis, acne, psoriasis, skin cancer, and dermatologic surgery.

Dr. Chiou is also actively involved in clinical trial research investigating new diagnostic paradigms and treatments for a variety of serious or poorly treated, chronic dermatologic conditions.

#### CLINICAL FOCUS

- Dermatology
- Acne
- Atopic Dermatitis
- Skin Cancer
- Dermatologic Surgery

- Psoriasis

### **ACADEMIC APPOINTMENTS**

- Clinical Associate Professor, Dermatology
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

### **ADMINISTRATIVE APPOINTMENTS**

- Director, Stanford Skin Innovation and Interventional Research Group (SIIRG), (2019- present)
- Co-Director, Value Based Care, Stanford Department of Dermatology, (2021- present)

### **HONORS AND AWARDS**

- Medical Dermatology Career Development Award, Dermatology Foundation (2019 - current)
- Gates Cambridge Scholarship, Gates Cambridge Trust (2007 - 2008)

### **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Member, American Academy of Dermatology (2017 - present)

### **PROFESSIONAL EDUCATION**

- Board Certification: Dermatology, American Board of Dermatology (2017)
- Chief Resident, Stanford Hospital and Clinics (2017)
- Residency: Stanford University Dermatology Residency (2017) CA
- Internship: Santa Clara Valley Medical Center Dept of Medicine (2014) CA
- MD, MBA, Harvard Medical School (2013)
- MPhil, University of Cambridge , Chemistry, by Research (2008)
- BS, Stanford University , Chemistry (2007)

## **Research & Scholarship**

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### **CURRENT RESEARCH AND SCHOLARLY INTERESTS**

I am a clinical researcher interested in evaluating promising new diagnostic paradigms and treatments for serious or poorly treated, chronic skin conditions. My research currently includes:

Therapeutics:

- Treatments for itch from epidermolysis bullosa
- Treatments for chronic wounds for patients with recessive dystrophic epidermolysis bullosa (In collaboration with Dr. Jean Tang and Dr. Peter Marinkovich)
- Treatments for atopic dermatitis, psoriasis, and other inflammatory skin conditions

Diagnostics:

- Artificial intelligence approaches for melanoma and skin cancer early detection

- Imaging mass spectrometry for skin cancer margin analysis and diagnosis

I collaborate with other faculty within the Stanford Skin Innovation and Interventional Research Group (SIIRG) to conduct investigator initiated and sponsored clinical trials seeking to improve care for important dermatologic diseases

Please learn more about our work at: <https://siirg.stanford.edu/>

## CLINICAL TRIALS

- A Study to Evaluate Upadacitinib in Combination With Topical Corticosteroids in Adolescent and Adult Participants With Moderate to Severe Atopic Dermatitis, Recruiting
- Evaluation of Upadacitinib in Adolescent and Adult Patients With Moderate to Severe Atopic Dermatitis (Eczema), Recruiting
- SAR231893-LPS15497- "Dupilumab Effect on Sleep in AD Patients", Recruiting
- 12-week Study of NFX-179 Gel in Subjects With Epidermal Nevi, Not Recruiting
- A Neurokinin-1 Receptor Antagonist for the Treatment of Pruritus in Patients With Epidermolysis Bullosa, Not Recruiting
- Neurokinin-1 Receptor Antagonist for the Treatment of Itch in EB Patients, Not Recruiting
- Study to Evaluate Adverse Events and Change in Disease Activity With Oral Tablets of Upadacitinib in Adult Participants With Non-Segmental Vitiligo, Not Recruiting

## Publications

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### PUBLICATIONS

- **A qualitative exploration of the experiences of itch for adults living with epidermolysis bullosa.** *The British journal of dermatology*  
de Vere Hunt, I., Halley, M., Sum, K., Yekrang, K., Phung, M., Good, J., Linos, E., Chiou, A. S.  
1800
- **Bridging to a selective Janus kinase 1 inhibitor in severe atopic dermatitis: An instructive case with upadacitinib.** *JAAD case reports*  
Nguyen, J., Chen, J. K., Honari, G., Pol-Rodriguez, M., Ko, J. M., Chiou, A. S.  
2021; 7: 65–67
- **Phase 2 Trial of a Neurokinin-1 Receptor Antagonist for the Treatment of Chronic Itch in Epidermolysis Bullosa Patients: A Randomized Clinical Trial.** *Journal of the American Academy of Dermatology*  
Chiou, A. S., Choi, S., Barriga, M., Dutt-Singh, Y., Solis, D. C., Nazarov, J., Bailey-Healy, I., Li, S., Shu, K., Joing, M., Kwon, P., Tang, J. Y.  
2019
- **Distinguishing malignant from benign microscopic skin lesions using desorption electrospray ionization mass spectrometry imaging.** *Proceedings of the National Academy of Sciences of the United States of America*  
Margulis, K. n., Chiou, A. S., Aasi, S. Z., Tibshirani, R. J., Tang, J. Y., Zare, R. N.  
2018
- **Efficacy and Safety of Upadacitinib in Patients With Moderate to Severe Atopic Dermatitis: Analysis of Follow-up Data From the Measure Up 1 and Measure Up 2 Randomized Clinical Trials.** *JAMA dermatology*  
Simpson, E. L., Papp, K. A., Blauvelt, A., Chu, C. Y., Hong, H. C., Katoh, N., Calimlim, B. M., Thyssen, J. P., Chiou, A. S., Bissonnette, R., Stein Gold, L. F., Wegzyn, C., Hu, et al  
2022
- **Histopathologic correlation of skin manifestations of multisystemic inflammatory syndrome in adults (MIS-A) associated with SARS-CoV-2 infection.** *JAAD case reports*  
So, N. A., So, J., Centkowski, S., Rana, J., Aleshin, M., Kwong, B. Y., Rieger, K., Zaba, L. C., Chiou, A. S.  
2021
- **A systematic literature review of the disease burden in patients with recessive dystrophic epidermolysis bullosa.** *Orphanet journal of rare diseases*  
Tang, J. Y., Marinkovich, M. P., Lucas, E., Gorell, E., Chiou, A., Lu, Y., Gillon, J., Patel, D., Rudin, D.

2021; 16 (1): 175

- **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
- **TrueImage: A Machine Learning Algorithm to Improve the Quality of Telehealth Photos**  
Vodrahalli, K., Daneshjou, R., Novoa, R. A., Chiou, A., Ko, J. M., Zou, J., Altman, R. B., Dunker, A. K., Hunter, L., Ritchie, M. D., Murray, T., Klein, T. E.  
WORLD SCIENTIFIC PUBL CO PTE LTD.2021: 220-231
- **Telehealth for Older Adults with Skin Disease: A Qualitative Exploration of Dermatologists' Experiences & Recommendations for Improving Care.** *The British journal of dermatology*  
de Vere Hunt, I., van Egmond, S., Nava, V., Khodosh, R., Lester, J., Chiou, A. S., Linos, E.  
2021
- **Prevalence of Potentially Allergenic Ingredients in Products Labeled for Eczema Care.** *Journal of the American Academy of Dermatology*  
Schwartz, B. L., Honari, G., Chiou, A. S., Ko, J., Sarin, K. Y., Chen, J. K.  
2021
- **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
- **An exploratory, open-label, investigator-initiated study of interleukin-17A (IL-17A) blockade in patients with moderate to severe papulopustular rosacea.** *The British journal of dermatology*  
Kumar, A. M., Chiou, A. S., Shih, Y. H., Li, S., Chang, A. L.  
2020
- **Dupilumab Treatment of Nummular Dermatitis: A Retrospective Cohort Study.** *Journal of the American Academy of Dermatology*  
Choi, S. n., Zhu, G. A., Lewis, M. A., Honari, G. n., Chiou, A. S., Ko, J. n., Chen, J. K.  
2020
- **Dupilumab for occupational irritant hand dermatitis in a nonatopic individual: A case report.** *JAAD case reports*  
Zhu, G. A., Honari, G. n., Ko, J. M., Chiou, A. S., Chen, J. K.  
2020; 6 (4): 296–98
- **Inflammatory alopecia in patients on dupilumab: a retrospective cohort study at an academic institution.** *Journal of the European Academy of Dermatology and Venereology : JEADV*  
Zhu, G. A., Kang, K. J., Chen, J. K., Novoa, R. A., Brown, R. A., Chiou, A. S., Ko, J. M., Honari, G.  
2019
- **Phase 1/2a clinical trial of gene-corrected autologous cell therapy for recessive dystrophic epidermolysis bullosa.** *JCI insight*  
Eichstadt, S., Barriga, M., Ponakala, A., Teng, C., Nguyen, N. T., Sibrashvili, Z., Nazaroff, J., Gorell, E. S., Chiou, A. S., Taylor, L., Khuu, P., Keene, D. R., Rieger, et al  
2019; 4 (19)
- **Angiodestructive lymphomatoid papulosis lasting more than 45years.** *JAAD case reports*  
Lee, G. H., Bae, G. H., Rieger, K. E., Kim, Y. H., Chiou, A. S.  
2019; 5 (9): 767–69
- **Repeat patch testing in a patient with allergic contact dermatitis improved on dupilumab.** *JAAD case reports*  
Zhu, G. A., Chen, J. K., Chiou, A., Ko, J., Honari, G.  
2019; 5 (4): 336–38
- **Assessment of the Development of New Regional Dermatoses in Patients Treated for Atopic Dermatitis With Dupilumab.** *JAMA dermatology*  
Zhu, G. A., Chen, J. K., Chiou, A. n., Ko, J. n., Honari, G. n.  
2019
- **Distinguishing malignant from benign microscopic skin lesions using desorption electrospray ionization mass spectrometry imaging** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

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- Margulis, K., Chiou, A. S., Aasi, S. Z., Tibshirani, R. J., Tang, J. Y., Zare, R. N.  
2018; 115 (25): 6347–52
- **Localized bullous pemphigoid in a melanoma patient with dual exposure to PD-1 checkpoint inhibition and radiation therapy.** *JAAD case reports*  
Hirotzu, K. n., Chiou, A. S., Chiang, A. n., Kim, J. n., Kwong, B. Y., Pugliese, S. n.  
2017; 3 (5): 404–6
  - **Cutaneous Neonatal Lupus Arising in an Infant Conceived From an Oocyte Donation Pregnancy** *JAMA DERMATOLOGY*  
Chiou, A. S., Sun, G., Kim, J., Wang, K. C., Marqueling, A. L.  
2016; 152 (7): 846-847
  - **A fibrous papule with abundant CD34-immunoreactive ganglion-like multinucleated giant cells: a case report and review of the literature.** *Dermatology online journal*  
Schaberg, K. B., Chiou, A. S., Wang, K. C., Egbert, B. M.  
2015; 21 (7)
  - **Tazarotene: randomized, double-blind, vehicle-controlled, and open-label concurrent trials for Basal cell carcinoma prevention and therapy in patients with Basal cell nevus syndrome.** *Cancer prevention research*  
Tang, J. Y., Chiou, A. S., Mackay-Wiggan, J. M., Aszterbaum, M., Chanana, A. M., Lee, W., Lindgren, J. A., Raphael, M. A., Thompson, B. J., Bickers, D. R., Epstein, E. H.  
2014; 7 (3): 292-299
  - **Advanced aging skin and itch: addressing an unmet need** *DERMATOLOGIC THERAPY*  
Garibyan, L., Chiou, A. S., Elmariah, S. B.  
2013; 26 (2): 92-103
  - **Tumor angiogenesis as a target for dietary cancer prevention.** *Journal of oncology*  
Li, W. W., Li, V. W., Hutnik, M., Chiou, A. S.  
2012; 2012: 879623-?
  - **Probing Neuroserpin Polymerization and Interaction with Amyloid-beta Peptides Using Single Molecule Fluorescence** *BIOPHYSICAL JOURNAL*  
Chiou, A., Haeggloef, P., Orte, A., Chen, A. Y., Dunne, P. D., Belorgey, D., Karlsson-Li, S., Lomas, D. A., Klenerman, D.  
2009; 97 (8): 2306-2315
  - **Reaction of Cl with CD4 excited to the second C-D stretching overtone** *JOURNAL OF CHEMICAL PHYSICS*  
Martin, M. R., Brown, D. J., Chiou, A. S., Zare, R. N.  
2007; 126 (4)
  - **PHYS 379-Effects of reagent vibrational excitation on the Cl+CD4 reaction**  
Martin, M. R., Brown, D. J., Chiou, A. S., Zare, R. N.  
AMER CHEMICAL SOC.2006
  - **Reaction products with internal energy beyond the kinematic limit result from trajectories far from the minimum energy path: An example from H+HBr -> H-2+Br** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*  
Pomerantz, A. E., Camden, J. P., Chiou, A. S., Ausfelder, F., Chawla, N., Hase, W. L., Zare, R. N.  
2005; 127 (47): 16368-16369