

Stanford



Tony Boutelle

COLLEGE Lecturer

Stanford Introductory Studies - Civic, Liberal, and Global Education

Bio

BIO

Tony Boutelle teaches in the Civic, Liberal, and Global Education (COLLEGE) program. He earned a B.S. in Biology with a second major in Chemistry at the University of North Carolina at Chapel Hill. During his time at Chapel Hill, he conducted undergraduate research in the Alisa Wolberg Lab, studying the biochemistry of blood clotting and completing an honors thesis entitled "Investigating the binding interaction between human factor XIII and fibrinogen". Motivated to continue conducting research to understand biological processes that impact human health, he went on to complete a Ph.D. in Cancer Biology at the Stanford School of Medicine, studying cancer genetics and cell biology in the Laura Attardi Lab. His dissertation, entitled "Understanding tumor suppression through the p53 target gene network", focused on illuminating the downstream effectors of the potent tumor suppressor, p53, and the molecular and cellular mechanisms important for tumor suppression.

Tony discovered his love for teaching as a supplemental instructor for "Principles of Biology" during his Junior and Senior years at UNC. At Stanford he served as a graduate teaching assistant for "Molecular and Genetic Basis of Cancer" and "Cancer Biology" and took on mentoring and outreach roles with various programs including REACH, GRIPS, PIPS, the Ashanti Project, EXPLORE, SIMR, Hermanxs in STEM, and Stanford SPLASH. Tony enjoys exploring the intersection of the natural sciences with other disciplines such as theology, philosophy, and literature. Through teaching, Tony hopes to create spaces that encourage students and instructors alike to gain the skills and confidence to create a meaningful life for themselves and to shape communities that promote sustainable flourishing.

In his free time, find Tony bird watching, baking, playing a board game, or trying a new food.

ACADEMIC APPOINTMENTS

- Lecturer, Stanford Introductory Studies - Civic, Liberal, and Global Education

Teaching

COURSES

2025-26

- Citizenship in the 21st Century: COLLEGE 102 (Win)
- Living with Viruses: COLLEGE 112 (Spr)
- Why College? Your Education and the Good Life: COLLEGE 101 (Aut)

2024-25

- Citizenship in the 21st Century: COLLEGE 102 (Win)

- Living with Viruses: COLLEGE 112 (Spr)
- The Molecular Basis of Disease: BIO 30S (Sum)
- Why College? Your Education and the Good Life: COLLEGE 101 (Aut)

2023-24

- Citizenship in the 21st Century: COLLEGE 102 (Win)
- Living with Viruses: COLLEGE 112 (Spr)
- Why College? Your Education and the Good Life: COLLEGE 101 (Aut)

Publications

PUBLICATIONS

- **Integrative multiomic approaches reveal ZMAT3 and p21 as conserved hubs in the p53 tumor suppression network.** *Cell death and differentiation*
Boutelle, A. M., Mabene, A. R., Yao, D., Xu, H., Wang, M., Tang, Y. J., Lopez, S. S., Sinha, S., Demeter, J., Cheng, R., Benard, B. A., McCrea, E. M., Valente, et al
2025
- **Targeting p53 gain-of-function activity in cancer therapy: a cautionary tale.** *Cell death and differentiation*
Attardi, L. D., Boutelle, A. M.
2023
- **The Mettl3 epitranscriptomic writer amplifies p53 stress responses.** *Molecular cell*
Raj, N., Wang, M., Seoane, J. A., Zhao, R. L., Kaiser, A. M., Moonie, N. A., Demeter, J., Boutelle, A. M., Kerr, C. H., Mulligan, A. S., Moffatt, C., Zeng, S. X., Lu, et al
2022
- **p53 and Tumor Suppression: It Takes a Network.** *Trends in cell biology*
Boutelle, A. M., Attardi, L. D.
2021
- **Zmat3 Is a Key Splicing Regulator in the p53 Tumor Suppression Program.** *Molecular cell*
Biegging-Rolett, K. T., Kaiser, A. M., Morgens, D. W., Boutelle, A. M., Seoane, J. A., Van Nostrand, E. L., Zhu, C., Houlihan, S. L., Mello, S. S., Yee, B. A., McClendon, J., Pierce, S. E., Winters, et al
2020; 80 (3): 452
- **p53 deficiency triggers dysregulation of diverse cellular processes in physiological oxygen.** *The Journal of cell biology*
Valente, L. J., Tarangelo, A. n., Li, A. M., Naciri, M. n., Raj, N. n., Boutelle, A. M., Li, Y. n., Mello, S. S., Biegging-Rolett, K. n., DeBerardinis, R. J., Ye, J. n., Dixon, S. J., Attardi, et al
2020; 219 (11)
- **The interaction between fibrinogen and zymogen FXIII-A2B2 is mediated by fibrinogen residues γ 390-396 and the FXIII-B subunits.** *Blood*
Byrnes, J. R., Wilson, C., Boutelle, A. M., Brandner, C. B., Flick, M. J., Philippou, H., Wolberg, A. S.
2016; 128 (15): 1969-1978