

Stanford



Rossie Clark-Cotton

Postdoctoral Research Fellow, Genetics

Bio

HONORS AND AWARDS

- Gilliam Fellowship Program, Howard Hughes Medical Institute (2016-2019)
- Predoctoral Diversity Enrichment Program, Burroughs Wellcome Fund (2017-2019)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- President, Duke University Bouchet Society (2017 - 2019)
- Librarian, Duke Chapel Choir (2019 - present)

PROFESSIONAL EDUCATION

- PhD, Duke University School of Medicine , Cell Biology (2021)
- MS, Mississippi State University , Biological Sciences (2014)
- MA, Boston University , Applied Linguistics (2005)
- BS, Millsaps College , Biology (1994)

STANFORD ADVISORS

- John Pringle, Postdoctoral Faculty Sponsor

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I am a biologist with broad biomedical research experience, ranging from longitudinal studies of cognitive aging to clinical trials of autoimmune disease - but my favorite biological problems have broad relevance to a variety of cell types, processes, and organisms. As a Ph.D. student in cell biology, I studied how budding yeast cells track chemical signals, a process that is critical for feeding, fertilization, and development (among many other things) in a wide variety of eukaryotes. As a postdoctoral fellow, I currently investigate actomyosin-independent mechanisms of cytokinesis in the alga *Chlamydomonas reinhardtii*.

Publications

PUBLICATIONS

- **Exploratory polarization facilitates mating partner selection in *Saccharomyces cerevisiae*.** *Molecular biology of the cell*
Clark-Cotton, M. R., Henderson, N. T., Pablo, M., Ghose, D., Elston, T. C., Lew, D. J.
2021; 32 (10): 1048-1063
- **Mechanisms that ensure monogamous mating in *Saccharomyces cerevisiae*.** *Molecular biology of the cell*
Robertson, C. G., Clark-Cotton, M. R., Lew, D. J.

2021; 32 (8): 638-644

- **Ratiometric GPCR signaling enables directional sensing in yeast.** *PLoS biology*
Henderson, N. T., Pablo, M., Ghose, D., Clark-Cotton, M. R., Zyla, T. R., Nolen, J., Elston, T. C., Lew, D. J.
2019; 17 (10): e3000484
- **The contribution of set switching and working memory to sentence processing in older adults.** *Experimental aging research*
Goral, M., Clark-Cotton, M., Spiro, A., Obler, L. K., Verkuilen, J., Albert, M. L.
2011; 37 (5): 516-38
- **Bilateral brain regions associated with naming in older adults** *BRAIN AND LANGUAGE*
Obler, L. K., Rykhlevskaia, E., Schnyer, D., Clark-Cotton, M. R., Spiro, A., Hyun, J., Kim, D., Goral, M., Albert, M. L.
2010; 113 (3): 113-123
- **Language and Communication in Aging** *Encyclopedia of Gerontology*
Clark-Cotton, M. R., Williams, R. K., Goral, M., Obler, L. K.
Elsevier.2007; 2: 1-8
- **Language Disorders: General** *Encyclopedia of Gerontology*
Goral, M., Clark-Cotton, M. R., Albert, M. L.
Elsevier.2007; 2: 16-23
- **BUCLD 29: Proceedings of the 29th Annual Boston University Conference on Language Development** *Boston University Conference on Language Development*
Brugos, A., Clark-Cotton, M. R., Ha, S.
Cascadilla Press.2005