

Date: February 8, 2021
Title: Postdoctoral Scholar
Department: Genetics and Genome Sciences
School: Medicine
Location: BRB
Supervisor Name and Title: Christopher McFarland, Assistant Professor

Interested individuals should send a CV, statement of interests, and a list of 2-3 references to: Christopher McFarland, Ph.D.
christopher.mcfarland@case.edu

The McFarland Lab (www.mcfarlandlab.org) at Case Western University in the Department of Genetics & Genome Sciences and Case Comprehensive Cancer Center is hiring two postdocs in the field of Cancer Evolution.

Our lab uses computational modeling and quantitative animal modeling to understand cancer progression and decipher patient genomes. Ongoing projects include:

- Use of forward evolutionary simulations to understand patterns of selection in patient genomes,
- Use of DNA barcoding and multiplexed genome engineering to systematically explore lung tumor evolution *in vivo* from initiation to metastasis.

We are looking to continue these projects in novel directions, which we can discuss, however candidates must conceptually-lead their research project and are encouraged to propose any project that aligns with the research focus of the lab. We work at the interface of theory and quantitative experiment and are aiming to recruit both a wet- and dry-lab expert. Collaborations with other labs are welcome.

We are a brand new lab aiming to create a fun and nurturing environment here at Case. As your advisor, my goal is to help you get where you want to be — in your career and outside of it.

You should be an intellectually curious, team player who is interested in understanding cancer biology using evolutionary theory. Backgrounds in quantitative modeling, cancer genetics & biology, mouse genetics, evolution, population genetics theory are desired. Ability to communicate ideas and mentor others is necessary.

Candidates must have a Ph.D. and/or M.D. in a relevant field.