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Amelia Taylor* (ajt@ameliajtaylor.com). *Transitioning from Commutative Algebra to Data Science, Robots and Biology.*

In summer 2016 I was selected to be an Insight Data Science Fellow and through that started working as a data scientist at Zymergen after nearly 20 years in academic mathematics with a research focus in commutative algebra. I will talk about that decision, how my most recent mathematical research fits in, and my mathematical life at Zymergen where we integrate robotics, software and biology to provide predictability and reliability to the process of rapidly improving microbial strains through genetic engineering, and I solve a surprising number of mathematics problems. (Received January 28, 2018)