



Graduate Student Experiences









overworked¹

underpaid^{2,3}

stressed^{1,4}

depressed⁵

Unable to prioritize their well-being without compromising their professional success





Junior Faculty Experiences









overworked⁶

misaligned work^{7,8}

isolated⁹

desire to leave academia¹⁰

Unable to prioritize their well-being without compromising their professional success





Marginalized Graduate Student & Junior Faculty Experiences







disproportionate pressure to perform^{12,13}



more anxious, depressed⁵



lower completion rates¹⁴

Lack of support, isolation, and racism increase likelihood to leave academia^{15,16}

Dark Patterns in Academia



Dark Patterns

Key systemic factors in the design of academic institutions that negatively affect the well-being of graduate students and junior faculty



Lab Counterculture

OH!Lab's specific, concrete, actionable practice(s) to counter dark patterns



Promote Supportive, Inclusive, Ethical Research



Lab Counterculture

individualistic solutions

-maladaptive responses to a (mis)constructed system

systemic designs ‡ accidental; cannot be accidentally resisted

see dark patterns so we can design against them





Lab Counterculture

dark patterns don't affect everyone equally

dark patterns interact with pre-existing social systems

marginalized groups are disproportionately affected

recognize who are most affected by dark patterns and why so we can design against dark patterns systemically

Dark Patterns | Countercultural Patterns







Focus on Quantitative Outcomes | Celebrating Effort over Outcomes

Perfectionism | Celebrating Effort over Outcomes

Competition | Elevating the Value of Community

Time Scarcity | Prioritizing Time with Each Other

Power Dynamics | Establishing Protected Communication Channels

Status Quo Bias | Mentoring & Facilitating Long-Term Goals

Financial Stress | Providing Flexible & Accessible Resources



Dark Pattern: Perfectionism



*not! Researchers trying to do their best work

Situations

People try to make their work perfect & hide uncertainty

> Creates impossible standards¹⁷

Harms

Fuels imposter syndrome¹⁷

Mistakes attributed to fixed characteristics rather than part of learning processes or situational factors

Systemic Designs

Long waits for feedback from advisors and/or review committees

Focus on quantitative outcomes







Countercultural Pattern: Celebrating Effort over Outcomes



Long waits for feedback from advisors and/or review committees

Focus on quantitative outcomes

People try to make their work perfect & hide uncertainty

Creation of impossible standards¹⁷

Counterculture

Asking & providing opportunities for lab members to share their work at various stages, not just outcomes

Celebrating lab members' quality work as <u>iterations towards excellence</u> rather than outcomes

Celebrating submissions, not just acceptances, offers, awards, etc.

Changing language around outcomes:
recognizing the work's value as
separate from external metrics like
paper acceptances & as
opportunities for reflection and
improvement

Benefits

Makes it clear that perfection is not expected

Mistakes & failure are material for iteration; expected part of learning

Lab members share their work without fear, enabling constructive feedback at all stages







Developing Counterculture





Practice + intention to disrupt dark patterns, even on a small scale

Enactment by all members

Preparing to continue this disruption when we have more power



Shifting the window of what is normal and acceptable

Exposing dark patterns to better resist them

Sum of our countercultural choices creates valuable divergence



We believe it is important to live our own values now

Society needs to change; doesn't exempt us from our responsibilities to others (esp. people who have less power)





OH!Lab Experience



40 hour work week



Real vacations



Meaningful mutual support



We publish, win awards





What can we do?



Identify system choices



Understand generated dark patterns



Discuss how to counter them

We can all seek justice together to create long-term sustainable research cultures that include everybody, not just the people least disadvantaged by the dark patterns of academia.



Thank You!

If you want to talk about countercultures more, please feel free to email me at ecruz@cs.cmu.edu



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