**Motivation for SIPPS**

- **No psychology or neuroscience summer research program** for Columbia students
- **Goals:** Increase access to intensive research experiences for undergraduate and post-baccalaureate students at Columbia through hands-on work
  - Equip students with **skills that will make them more successful in labs**
  - Provide a **safe & supportive environment** for students to explore research
  - Ultimately, we hope to **provide funding to students from underrepresented backgrounds**

**10-week Summer Research Program**

- **2 tracks:**
  - Workshop-Only Track (n = 37)
  - Research Project Track (n = 29)

- **Workshops 3x a week**
  - Coding
  - Research Skills
  - Professional Development / Journal Club
  - Programming fundamentals
  - Literature search & Zotero
  - Careers inside & outside academia

**Example week:**

**Research Project Track:**

- completion of independent research project
- individualized mentorship
  - graduate student/postdoc mentor
  - “near-peer” mentor (senior undergrad or post-bac w/prior research experience)
- poster/data blitz presentation at end of program

**Impact of SIPPS 2021**

- **Take-aways from SIPPS 2021**
  - Workshops + independent research project track has the greatest efficacy, but workshops alone show improvements
  - Need for funding: students who cannot afford to volunteer drop out
  - Recruitment: recruit students from marginalized backgrounds and those with limited access to research opportunities
  - Training: Mentor and peer-mentor training with emphasis on inclusive mentorship
  - Workshop changes: Longer coding workshop with focus on applying principles learned
  - Curriculum revision: Update workshop content based on feedback

- **Plans for Summer 2022**
  - Provide funding opportunities such that students from historically excluded backgrounds can get intensive research opportunities
  - Curriculum refinement & expanded mentor training
  - Broaden research opportunities to include more neuroscience labs and collaborate with Zuckerman Institute
  - Mentor & student recruitment is underway

**Impact of SIPPS 2021**

- **R programming / data analysis workshops**
- Research skills workshops
- Professional development workshops
- Journal club sessions
- Support and guidance from my research mentor
- Support and guidance from my peer mentor

**Post-SIPPS self-reported satisfaction**

**Take-aways from SIPPS 2021**

- **Research Project Track (n = 29)**
  - completion of independent research project
  - individualized mentorship
    - graduate student/postdoc mentor
    - “near-peer” mentor (senior undergrad or post-bac w/prior research experience)
  - poster/data blitz presentation at end of program

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