

Interweaving Design and Medical Research
Paradigms Through Participatory Collaboration

What happens when medical students collaborate with design students with seemingly different worldviews to conduct a qualitative form of research?

Paradigms intersect, boundaries get transcended, and innovation happens through co-creation!

Part 1

Interweaving Design and Medical Research Paradigms



Introduction

In a pioneering interdisciplinary endeavour, the students of SCAD and MCG embarked on a project to dissect and comprehend each other's research processes.

Through structured workshops, creative methodologies, and collaborative design, the teams identified potential avenues to enhance the user experience for medical students executing community-based research.

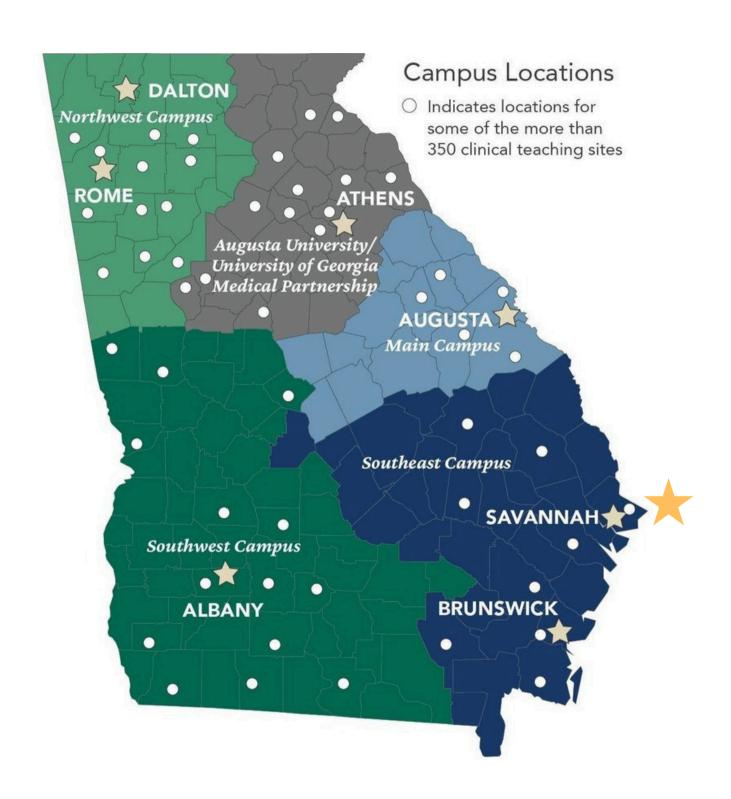
Medical College of Georgia

The Medical College of Georgia has a long and pioneering history in medical education. Founded in 1828 as one of the USA's first medical schools, MCG has been educating physicians and advancing health care for nearly 200 years.



Medical College of Georgia

In order to promote service in rural and underserved areas, MCG redesigned its core 4 year MD program to an accelerated 3+ year program to provide flexibility, enable students to graduate early and join a residency program in Georgia.



When thinking of Medical Research, what comes to your mind?

















Community Based Research

MCG, committing to creating more research opportunities and improving the quality of the output of its students seeks to develop an innovative non traditional Community-Based approach to research.



Community Based Research

Community Based Projects are collaborative, change oriented, and inclusive. The interventions created requires multifaceted participation and the projects are responsive to the community's needs.

3D Printed Family
Portraits For The Blind

Community-Based Vision Screening in Savannah

The Effects of Uninsurance on Patient Health

Exploring the Stigma
Around Family Medicine

NIH CBPR/PAN Canada

SCAD X MCG





CHONGYUAN YIN

MFA | Service Design



Tirath Singh Puni













Anesthesiology







Stephanie Parris Family Medicine Jack Xhemali Undecided Specialty

Tommy Bui Ophthalmology

What contributions can SCAD design students make to enrich MCG student research practice and experience?



Two to One Collaboration Project Level



Diagnostic Workshop Group Level



Co-Creation
Workshop
Institutional Level



Two to One Collaboration Project Level

Two design students paired up with one medical student each to closely understand their project. This allowed us to not only look at the them closely from multiple angles, but also correlate our insights with all groups.



Diagnostic Workshop

Group Level

We adapted activities from Modmentum's Brand Diagnostic Toolkit and IBM's enterprise Design Thinking Toolkit to uncover the research process, the needs, and challenges faced by medical students as a body of students.

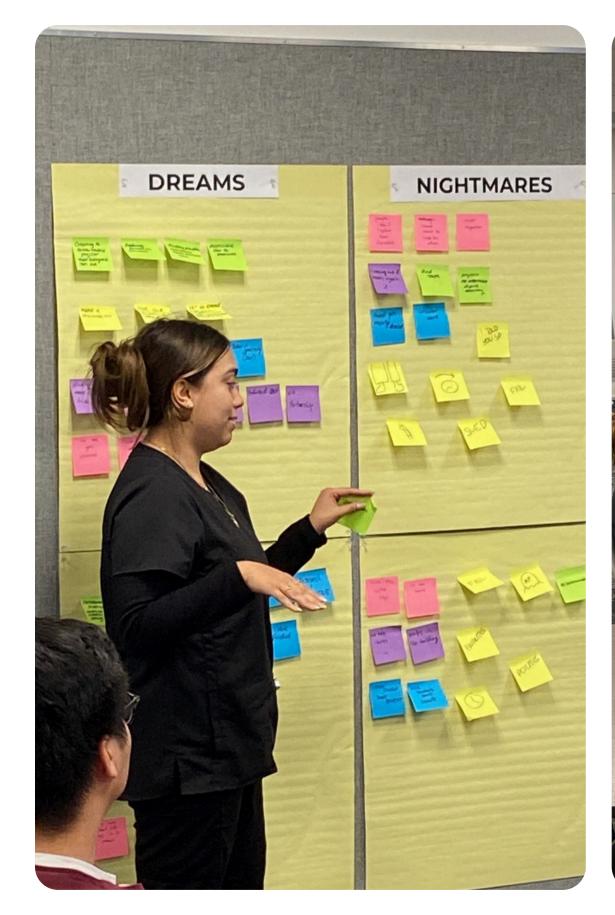


Co-Creation Workshop

Institutional Level

Enabled the medical students to creatively reflect on their process and introduce ethnographic tools to be adopted at an institutional level. We used the Liberating Structures created by Henri Lipmanowicz and Keith McCandless to design the workshop.









Part 2

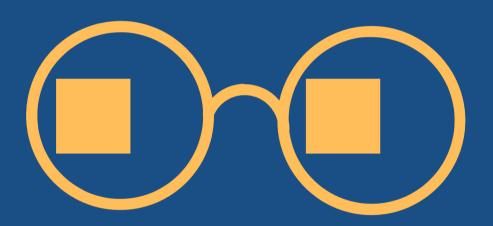
Paradigms in Action. Learnings from the collaboration.



Challenging one's Worldview

Communicating the Value

Thinking Holistically





Learnings

We observed that the medical students applied a very quantitative approach to understand very qualitative phenomenons!

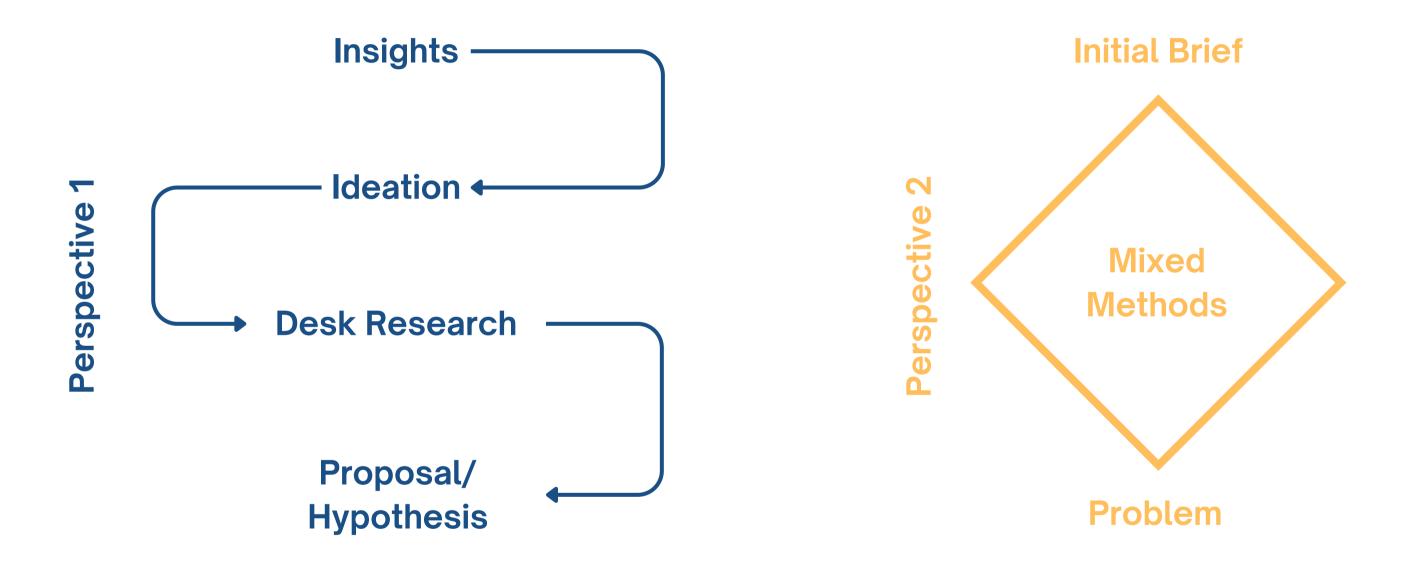
Consider this:

a project to evaluate emotional responses of visually impaired people to 3D printed portraits



LinkedIn/Jack Xhemali

Learnings



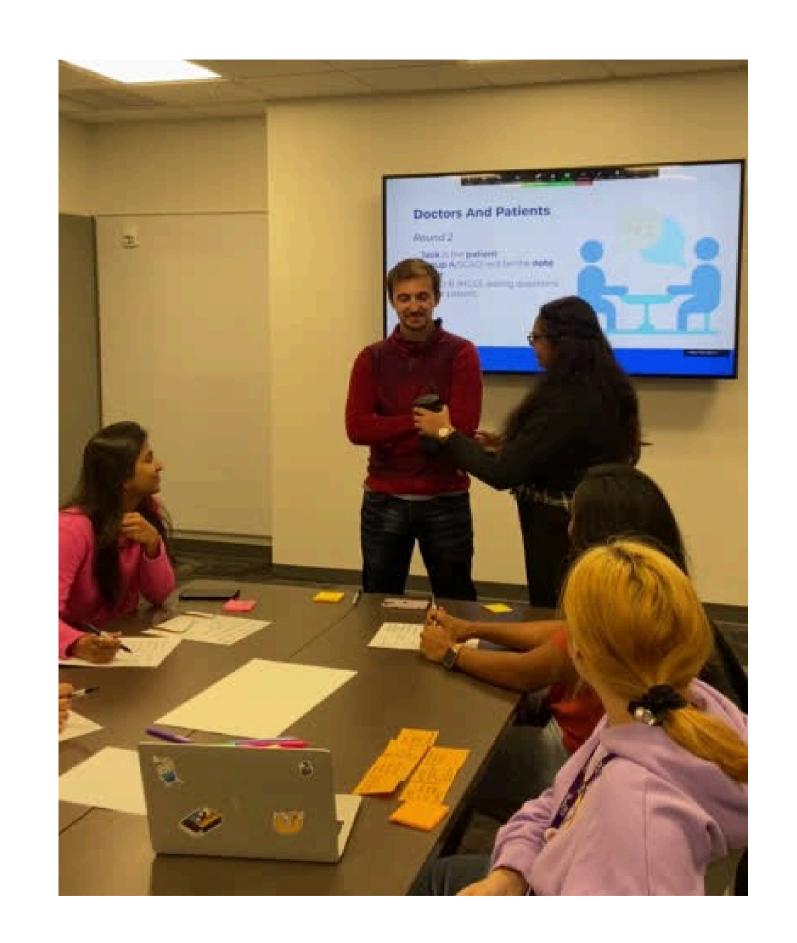
We wanted to first investigate the experience of visually impaired people to understand their challenges!

So how do we challenge the worldview?

Through role-playing!

We introduced the tool of roleplaying to put oneself in the shoes of the users and imagine a day in their lives!

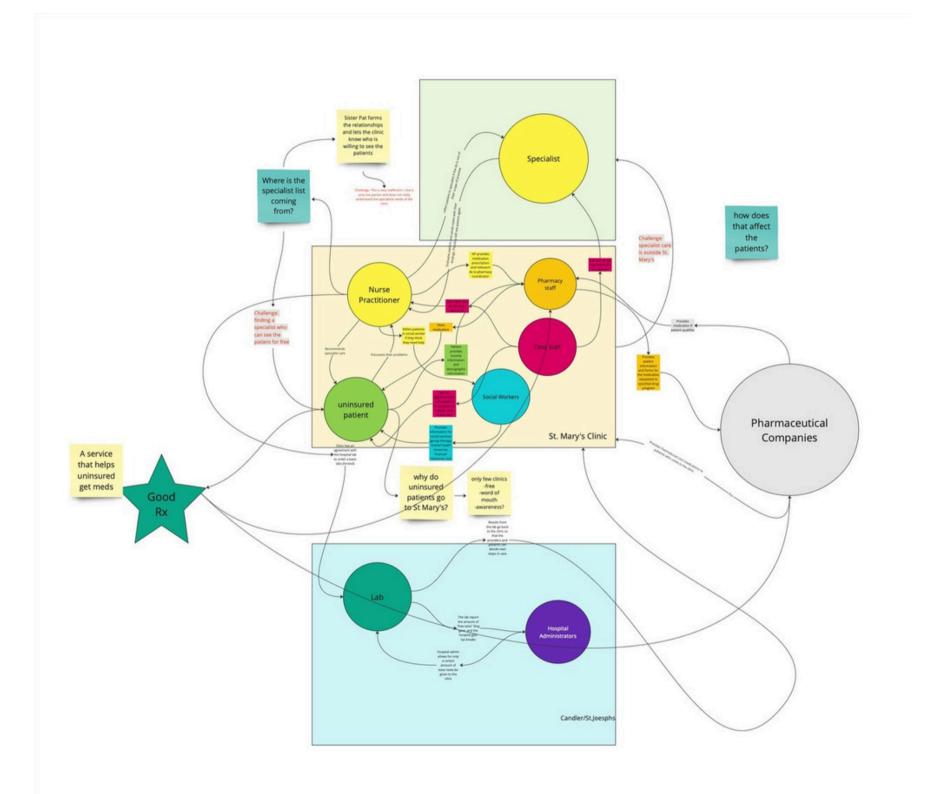
We gave the student objects to identify to see if they feel any better and then suprised him with the comfort of a human touch!

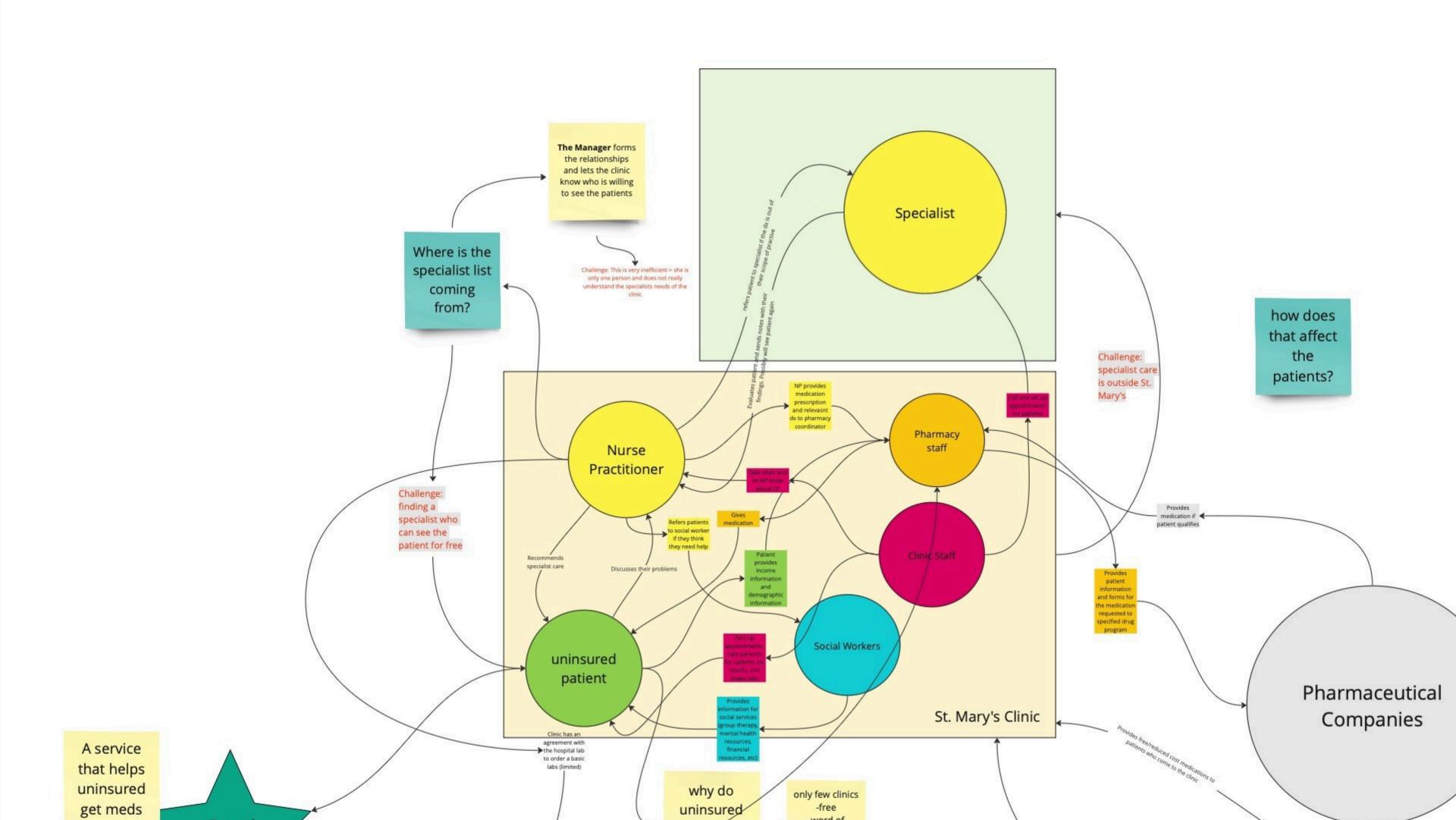


Communicating the Value

Part of the challenge was also to show the value **qualitative methods** and an abductive logic brought to finding the root causes of behaviour of the people in the communities.

Applying the service design approach of ecosystem mapping uncovered deeper connections!

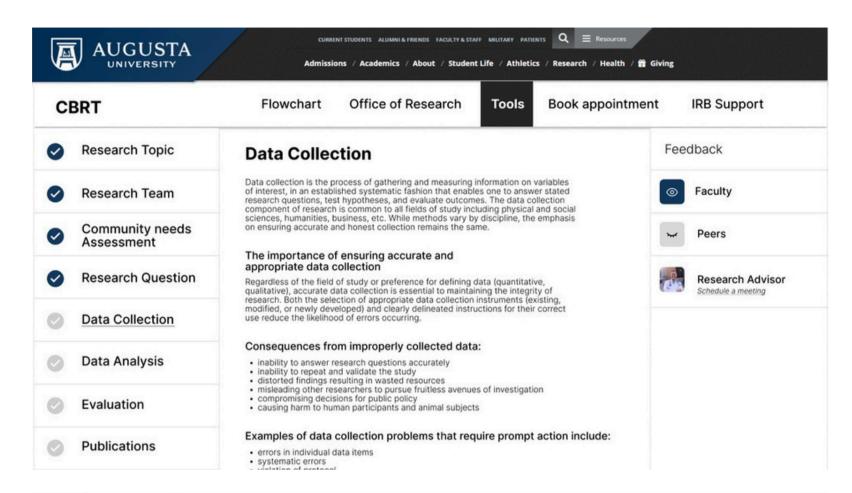




Holistic Thinking

After understanding the needs of the students, we provided a range of suggestions to holistically incorporate qualitative approaches to conduct Community Based Research.

The interventions ranged from an ethnographic research toolkit, a research portal as well as changes to the curriculum.





"This is one of the great virtues of encountering someone or some place that is radically different from what we know. We see the contrast between how we do things and how they do things, and we can then see ourselves in a new light."

Michael Wesch

