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2024-06-12

Hidden Scientists/Hidden Creatives

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Hidden Scientists/ Hidden Creatives

Dr. Con Kennedy FDI



TU Dublin Sustainability Education Symposium
12 June 2024



Casual Conversation
Creativity
Collaboration

Location
Location
Location



Location Location Location

TU Dublin School of Art and Design
School of Biological, Health and Sports Sciences
Sustainability and Research Hub
Research, the Ethics and Integrity Office

Supported by the Office of Equality, Diversity and Inclusion and the
Faculty of Sciences and Health

The Genesis

- The School of Biological, Health and Sports Sciences wanted to promote and raise awareness of under represented women in STEM
- Dr Jessica Wade has contributed to public engagement to increase gender equality in science, technology, engineering, and mathematics (STEM) subjects
- How can the School of Art and Design help?
- How can the '*client requirements*' be delivered through existing frameworks?

The Module

- Professional Design Practice 2: Design and Career Management (DESI 4107) is an existing optional module delivered on TU 973 - BA Visual Communication Design (year 2)
- Among the module learning outcomes is for the students to gain knowledge of key designers in the field
- This presents an opportunity to augment the LO and for students to gain knowledge specifically of female designers
- Therefore, creating a parallel between the requirements of the School of Sciences and the module

The brief!

- Students are required to design an large format poster featuring their assigned female scientist's contributions to the field
- Posters must be designed to reflect the style and aesthetics of their assigned female creative
- Students are required to undertake self-directed learning, explore multiple creative solutions and are free to explore any medium appropriate for this assignment
- Students were randomly assigned a scientist and a designer

UN Sustainable Development Goals

This assignment explores the following UN SDGs:

Goal 4: Quality Education

Goal 5: Gender Equality

Goal 9: Industry, Innovation and Infrastructure

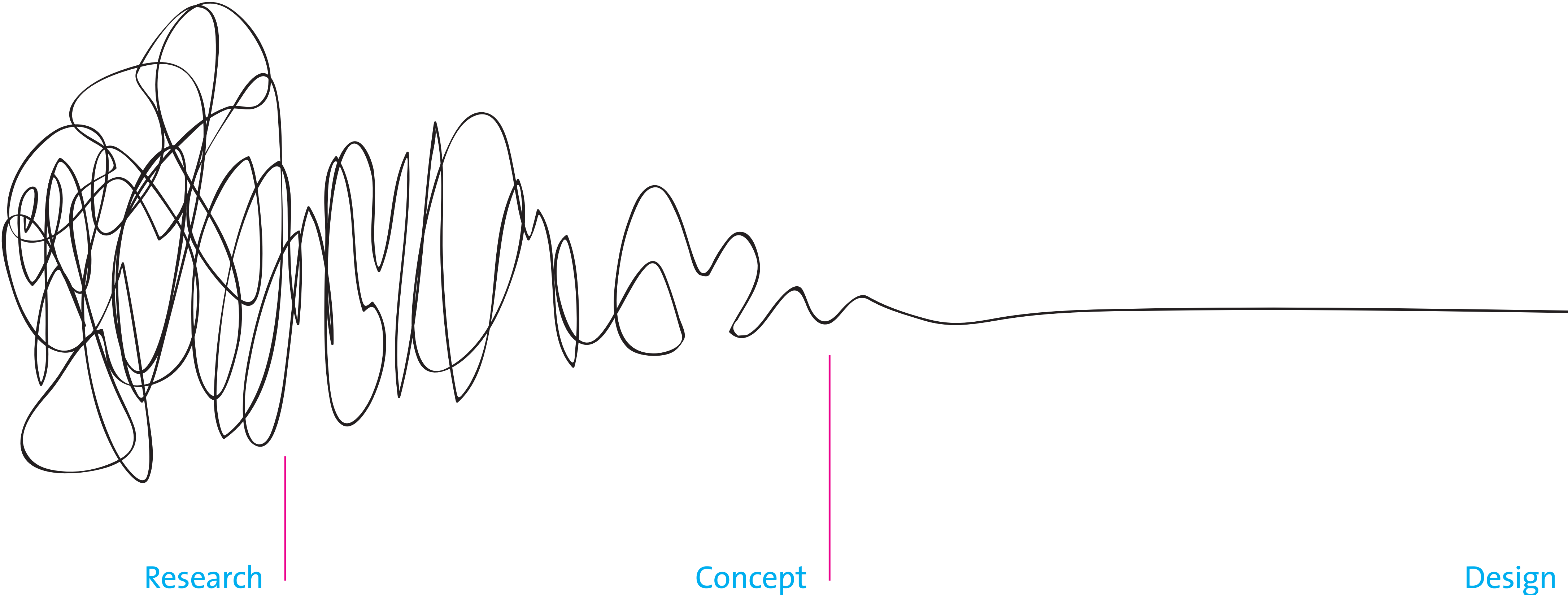
Goal 10: Reduced Inequalities

SDGs were specially written into the brief and were explored during the design process

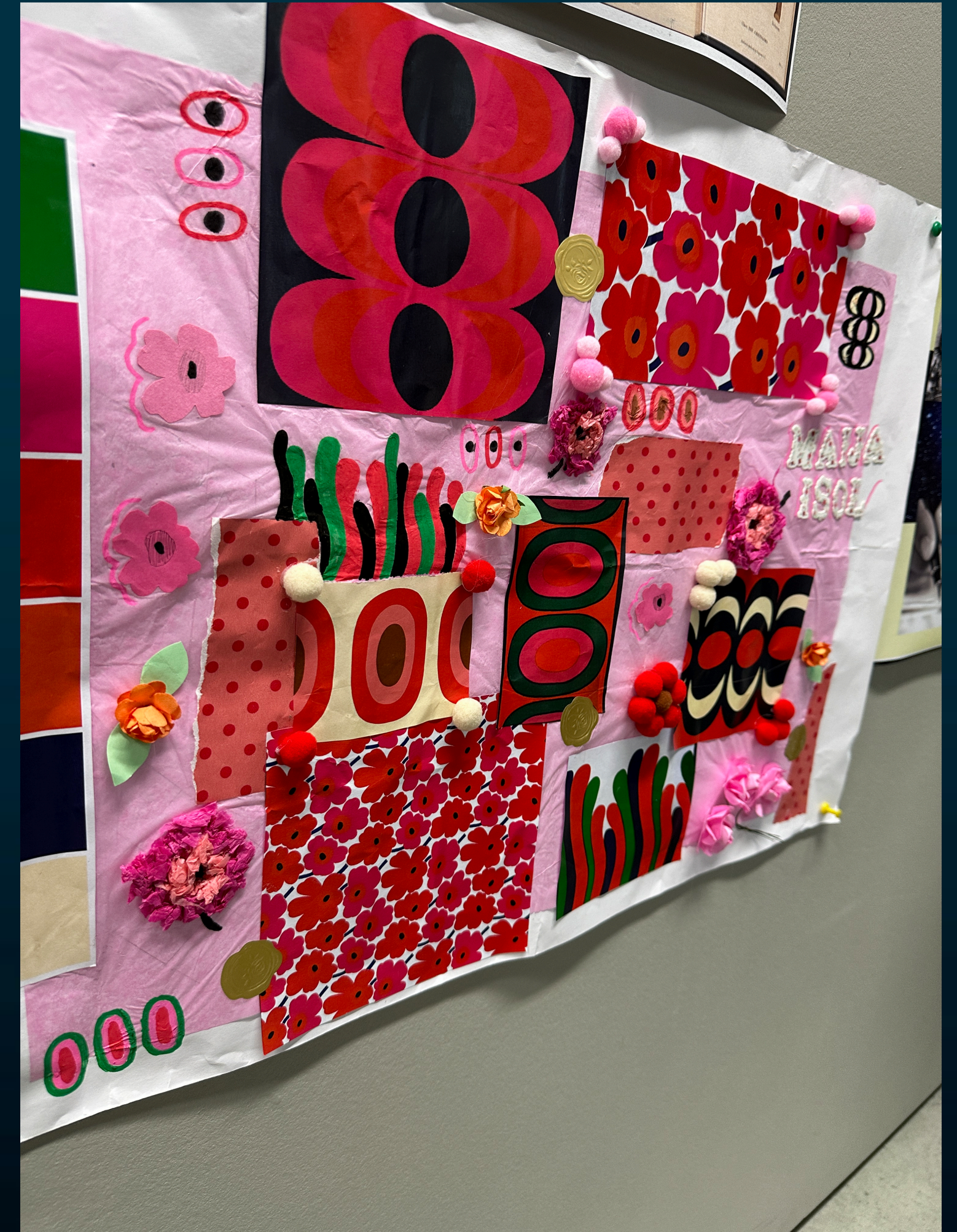
The Design Process

Uncertainty / Patterns / Insights

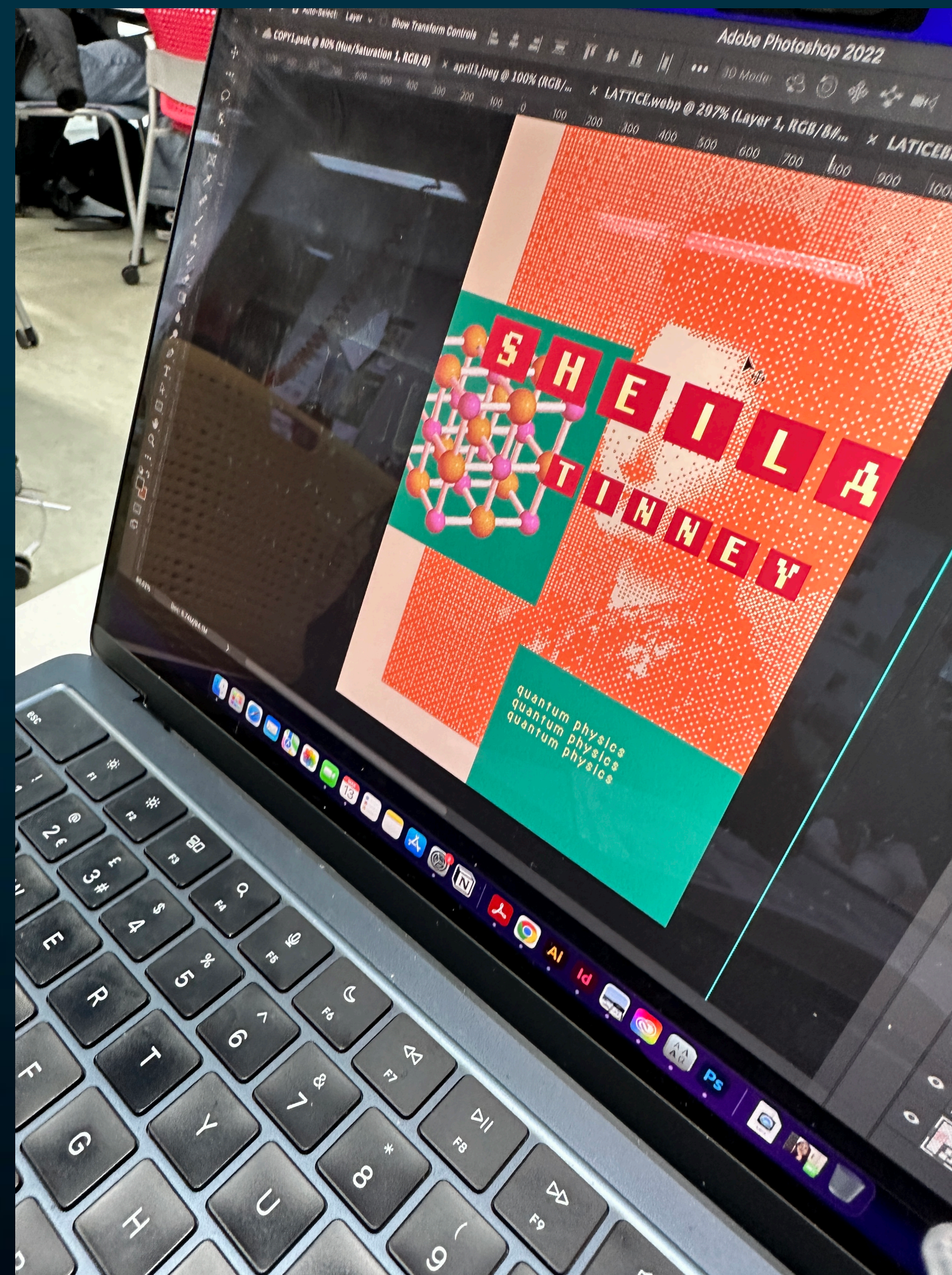
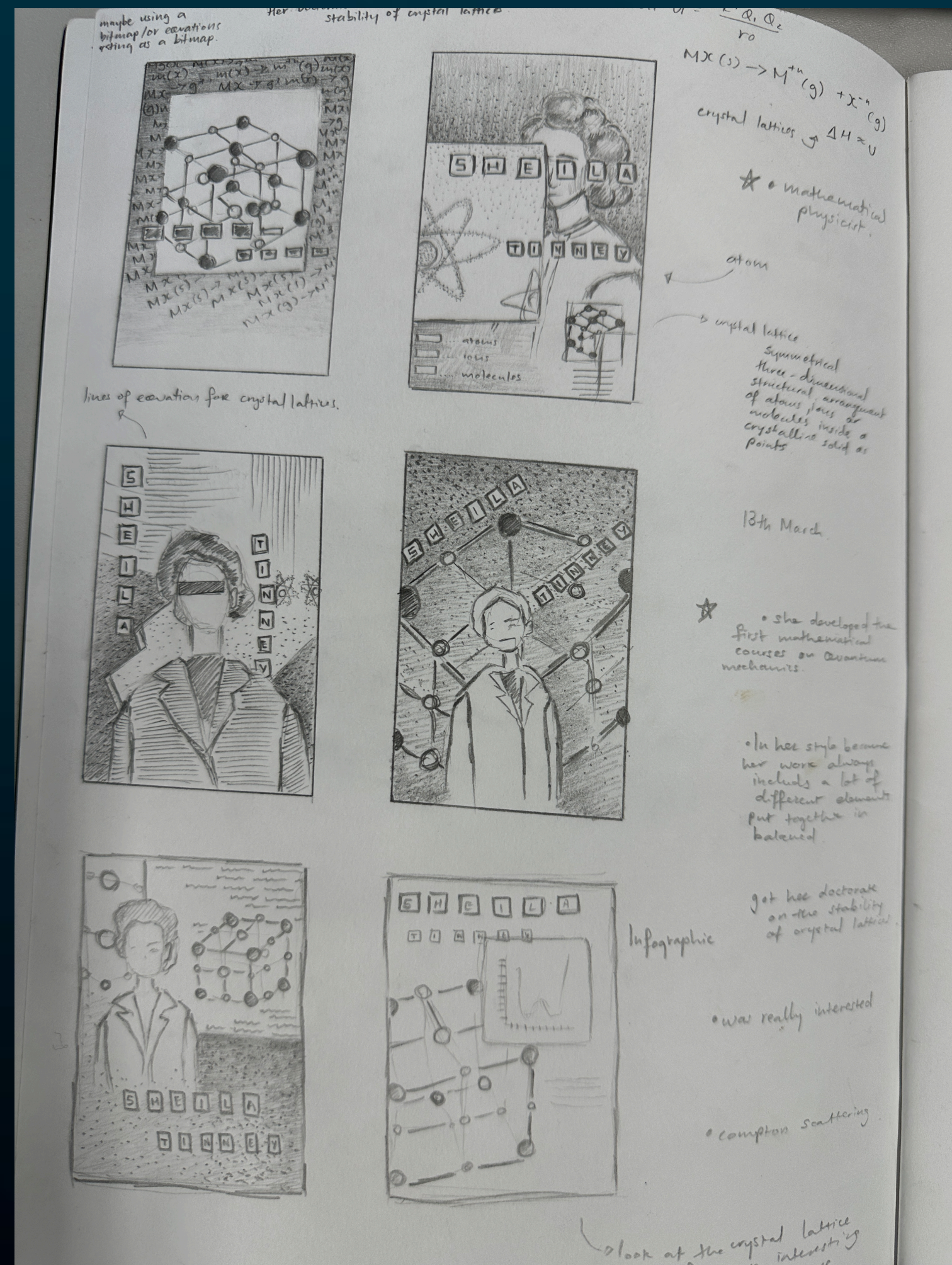
Clarity / Focus



Initial Student Presentations



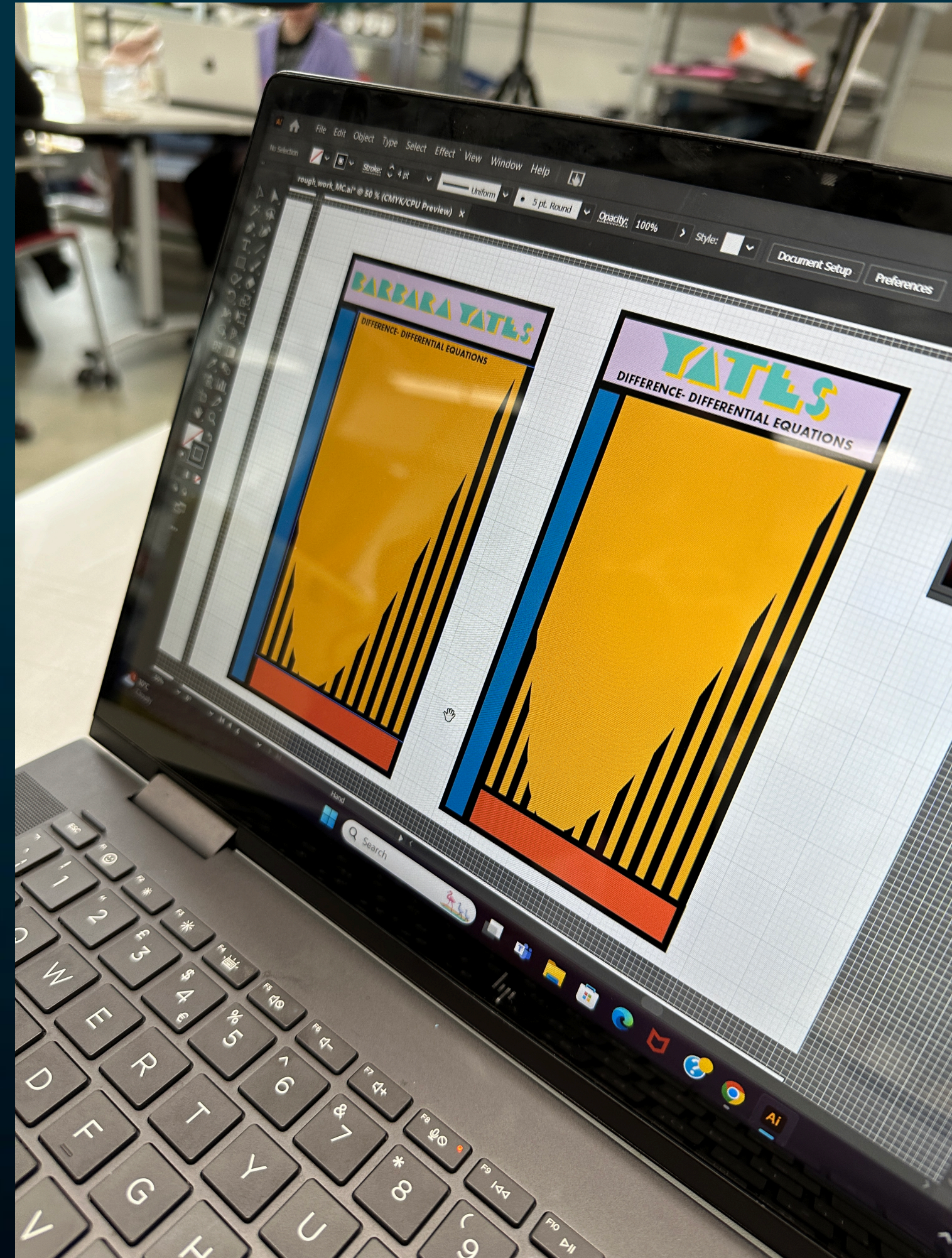
Developmental Design Explorations



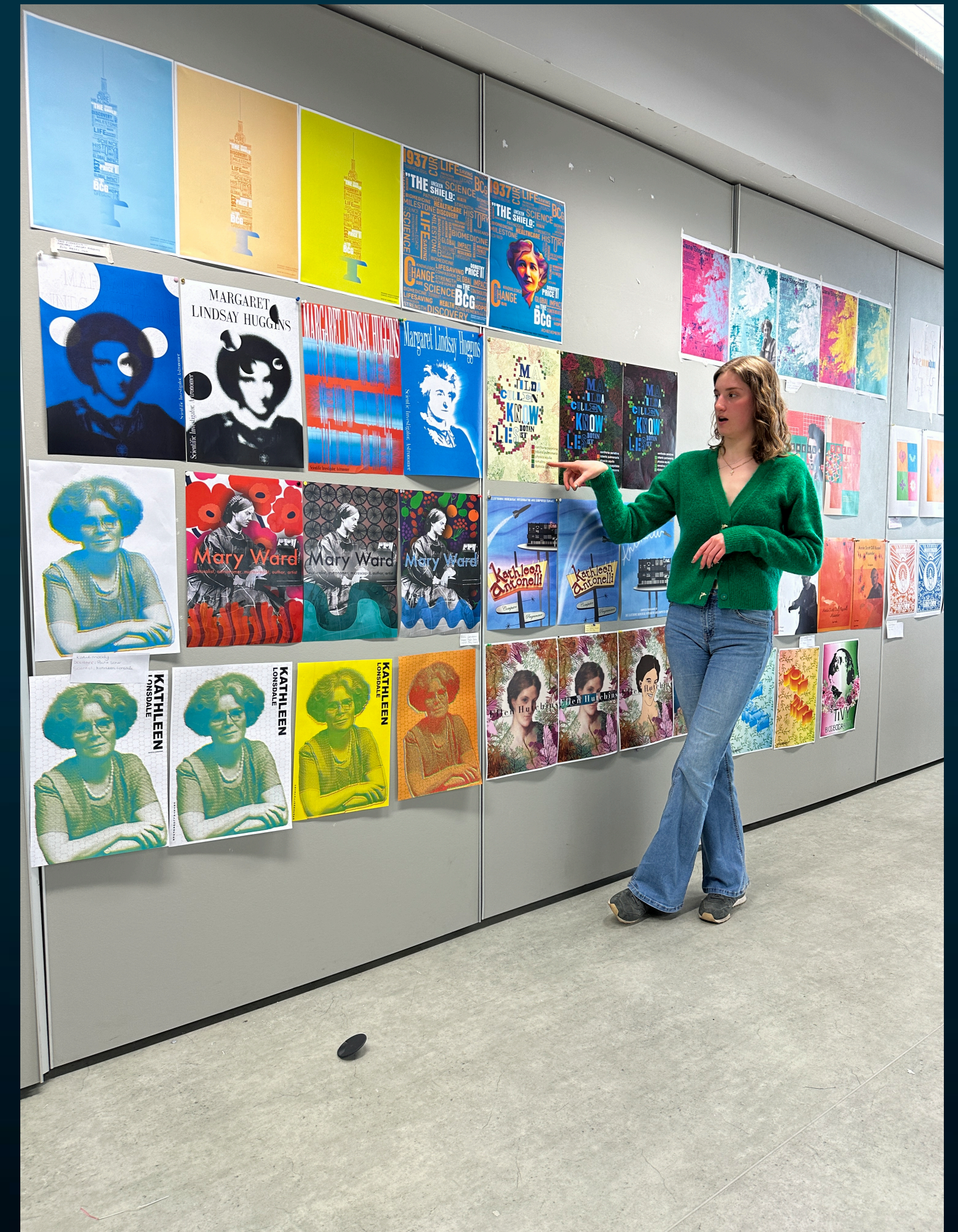
Developmental Design Explorations



Developmental Design Explorations



Interim Student Presentations





The Work!



Eleanor Knott (Lexicographer) in the style of Annie Atkins.

Designed by Chloe McCusker.



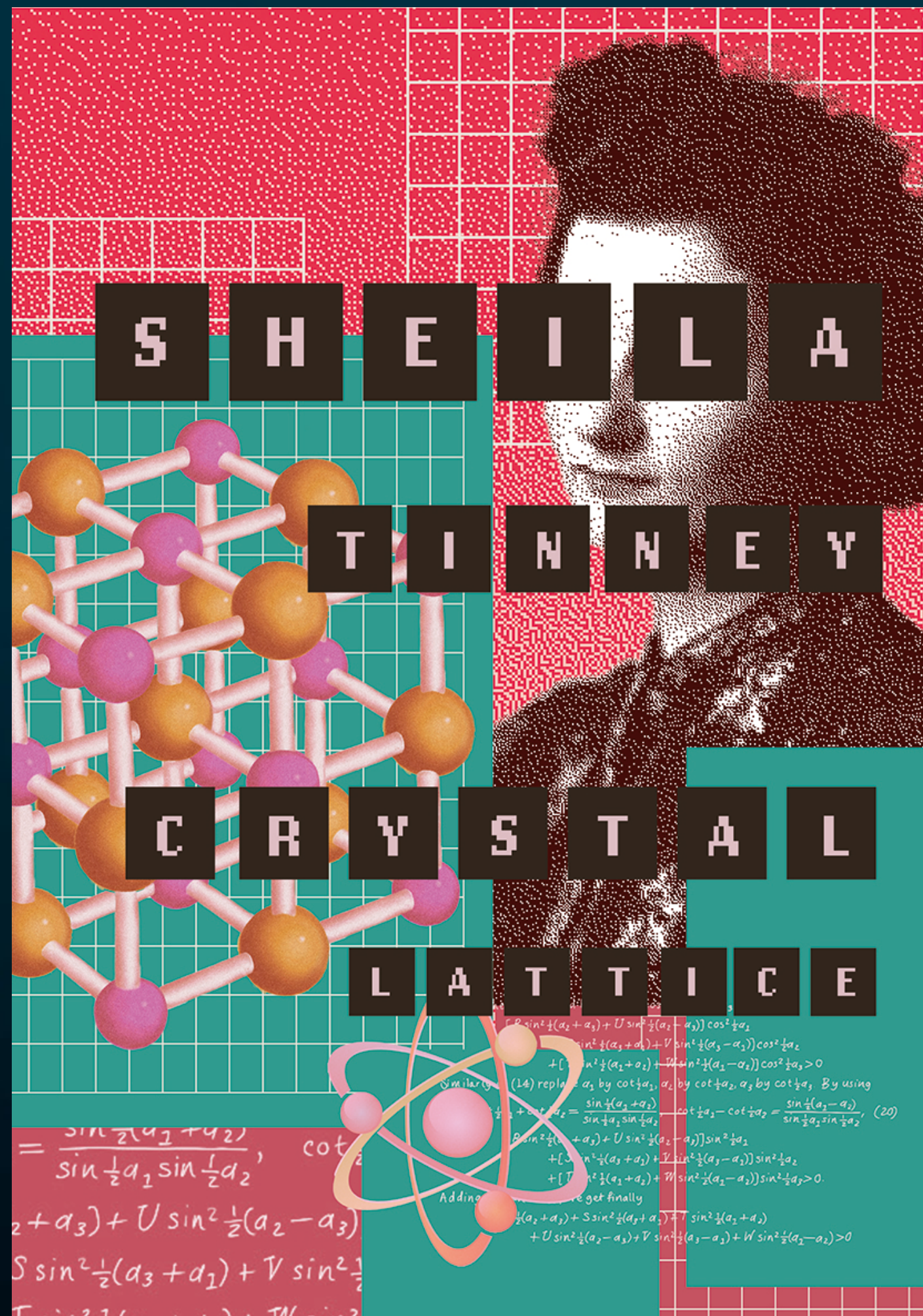
Matilda Cullen Knowles (Botanist) in the style of Gail Anderson.

Designed by Hannah Corble.



Mary Ball (Naturalist and Entomologist) in the style of Lora Lamm.

Designed by Deborah AyoDele.



Sheila Tinney (Mathematical Physicist) in the style of April Greiman.

Designed by Devika Mohan.



Maura Scannell (Botanist) in the style of Sarah Boris.

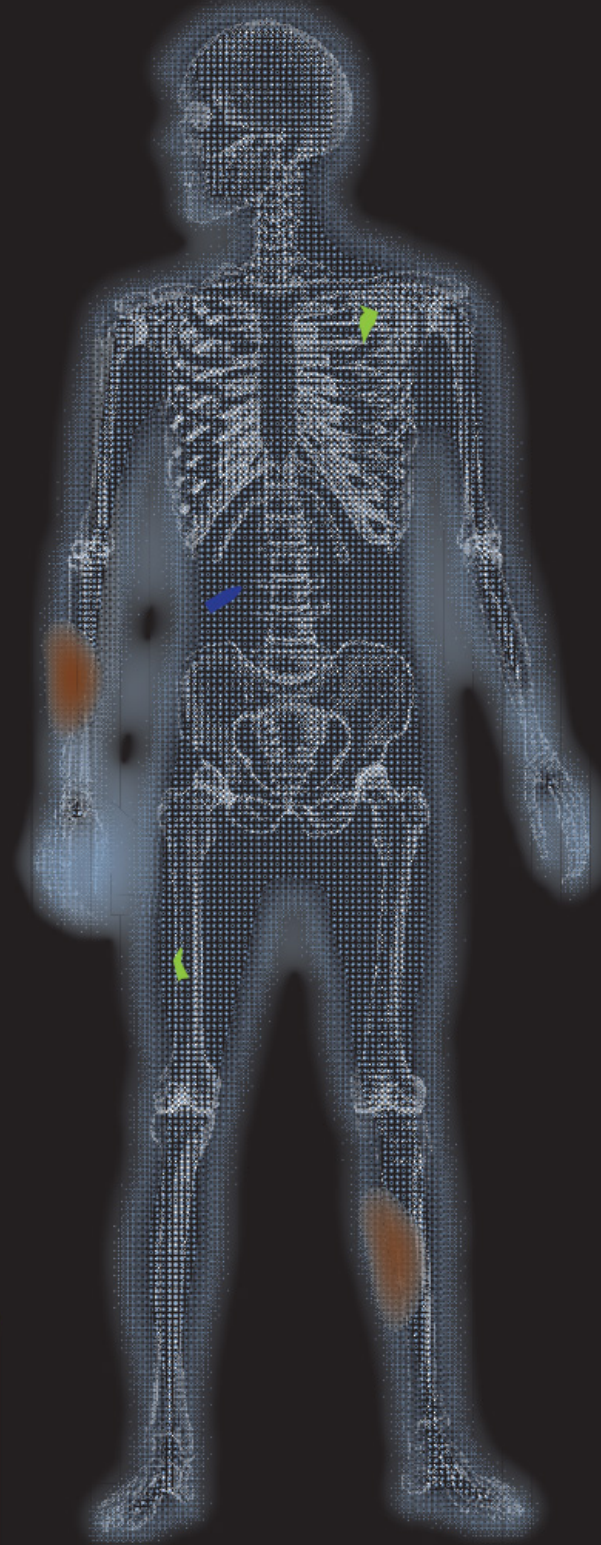
Designed by Dylan McEvoy.



Ellen Hutchins (Botanist) in the style of Bea Feitler.

Designed by Ethan Proctor.

Edith Anne Stoney
Physician & radiologist



During the first World War, Edith joined the Scottish Woman's Hospital to provide medical support in the battlefield. During her time in the war zones she localised bullets and shrapnel using stereoscopy, and pioneered the use of x-rays to find gas gangrene, a deadly infection that usually took 36 hours to find. Thanks to her discovery, this could now be diagnosed immediately.

Gas gangrene Bullets Shrapnel

Edith Anne Stoney (Physicist) in the style of Zuzana Licko.

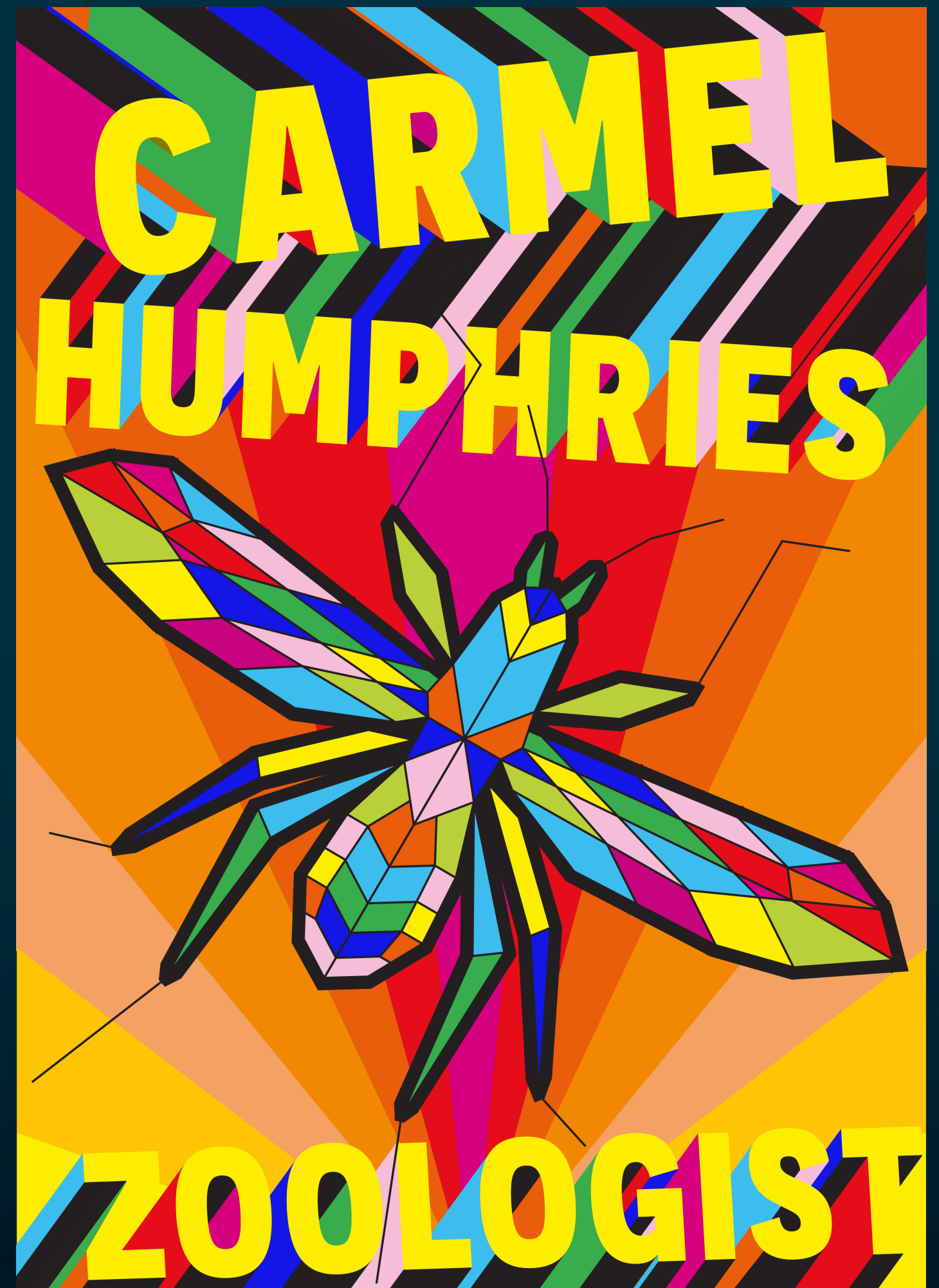
Designed by Eve Zewdu.

**MARGARET
LINDSAY HUGGINS**



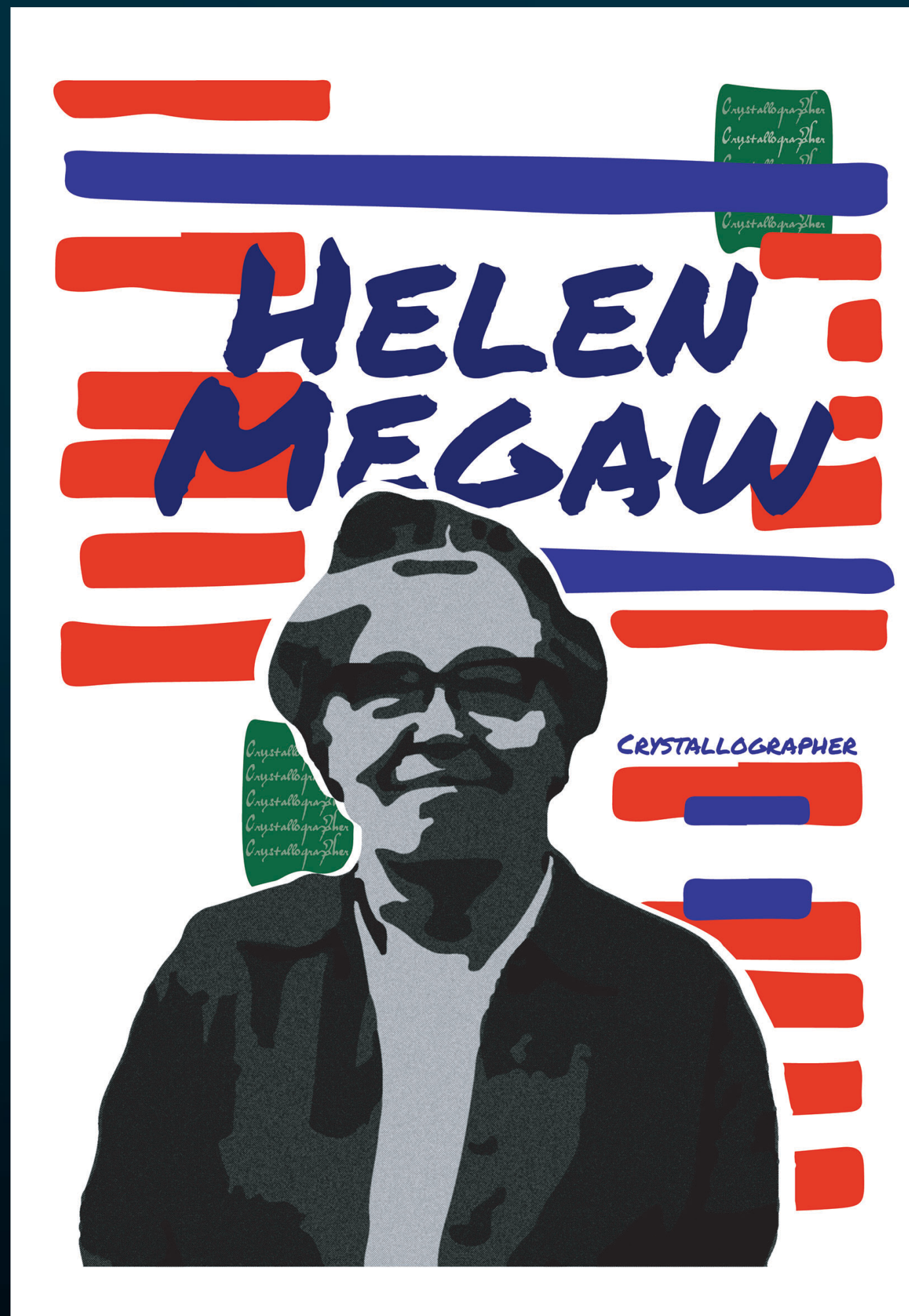
Margaret Lindsay Huggins (Astronomer) in the style of Ruth Ansel.

Designed by Faye O'Loughlin.



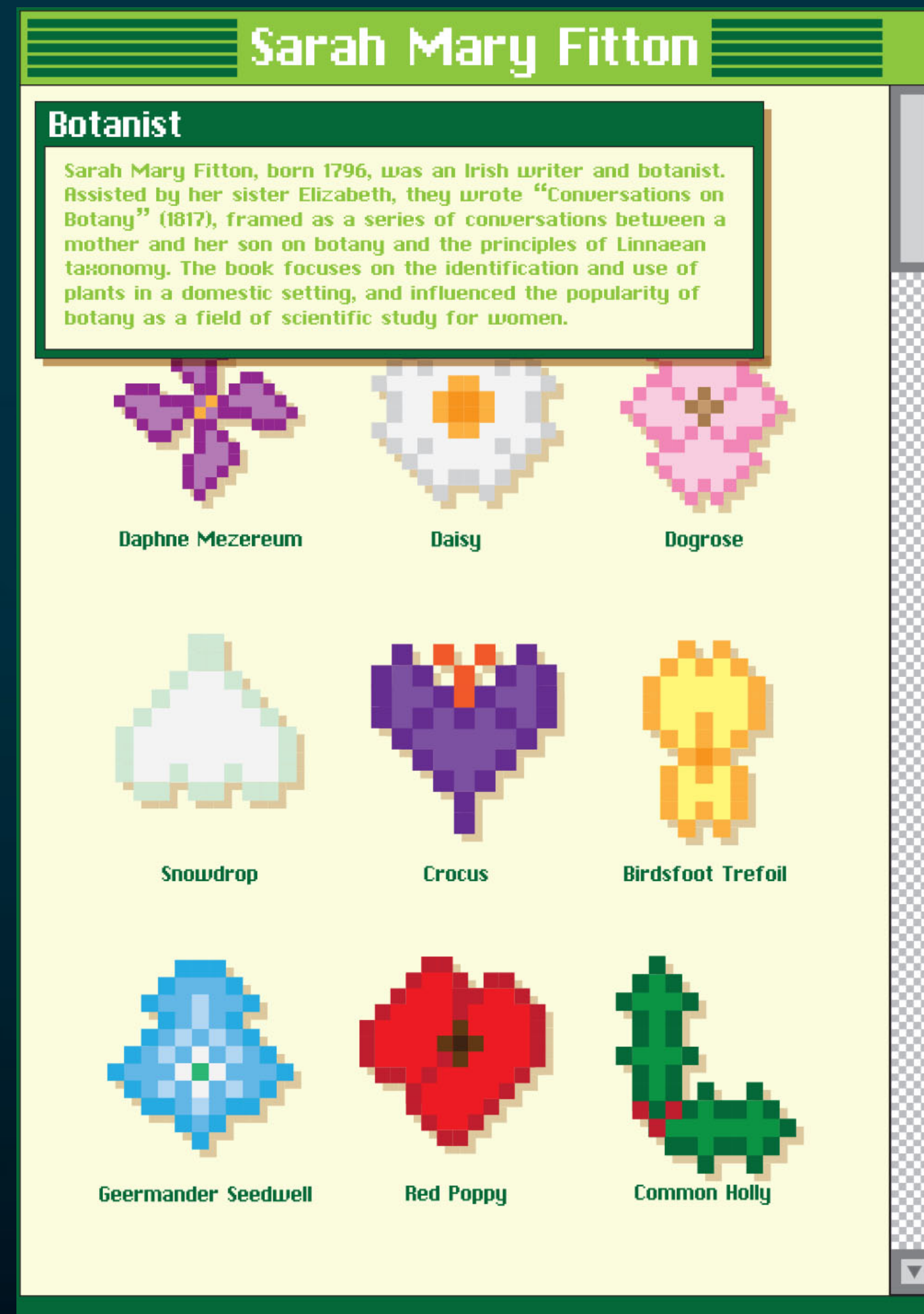
Carmel Humphries (Zoologist) in the style of Morag Myerscough

Designed by Gabriella DaNaia
(Erasmus Student).



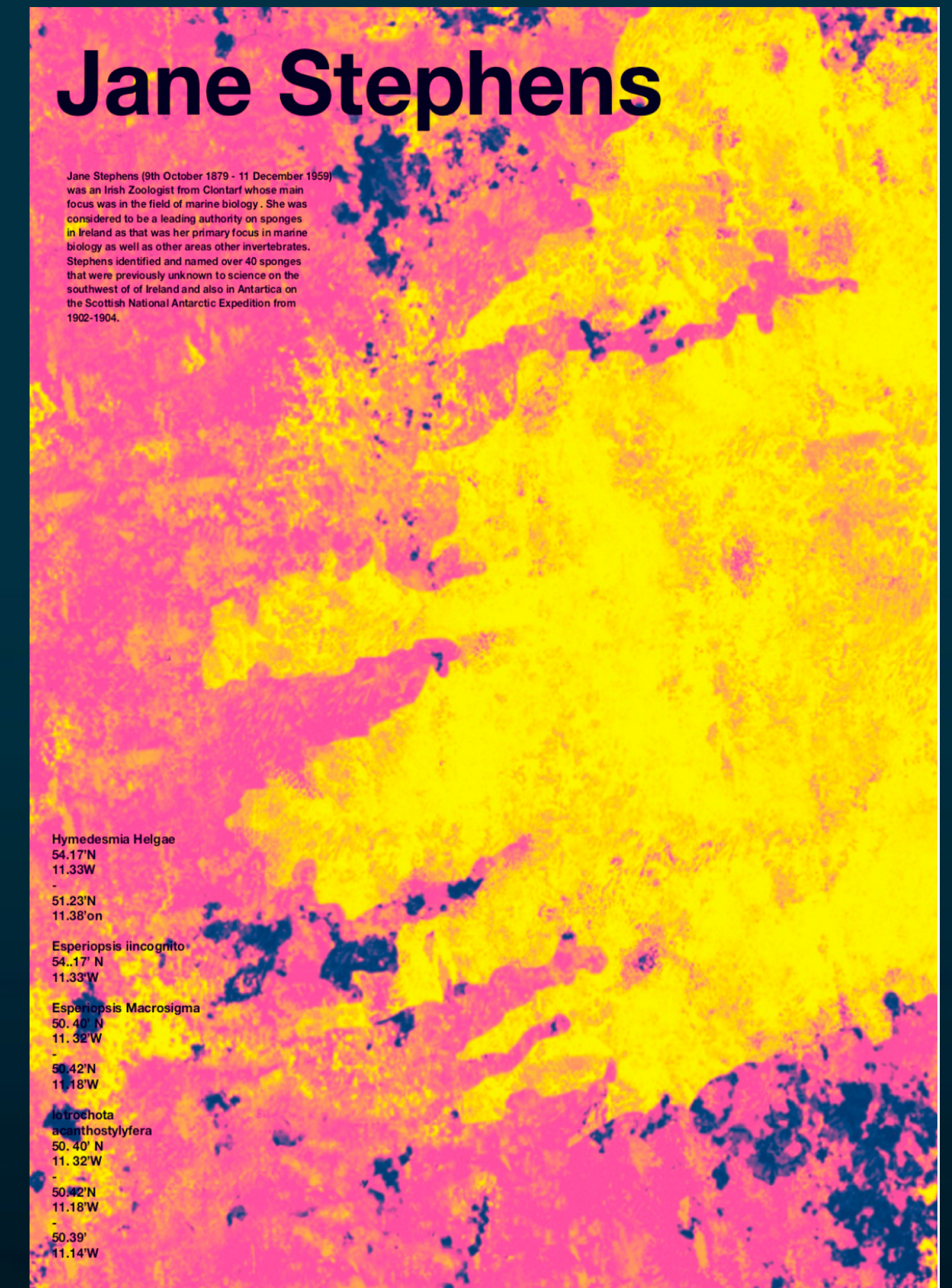
Helen Megaw (Crystallographer) in the style of Corita Kent.

Designed by Ines Marques De Almeida Eduardo (Erasmus Student).



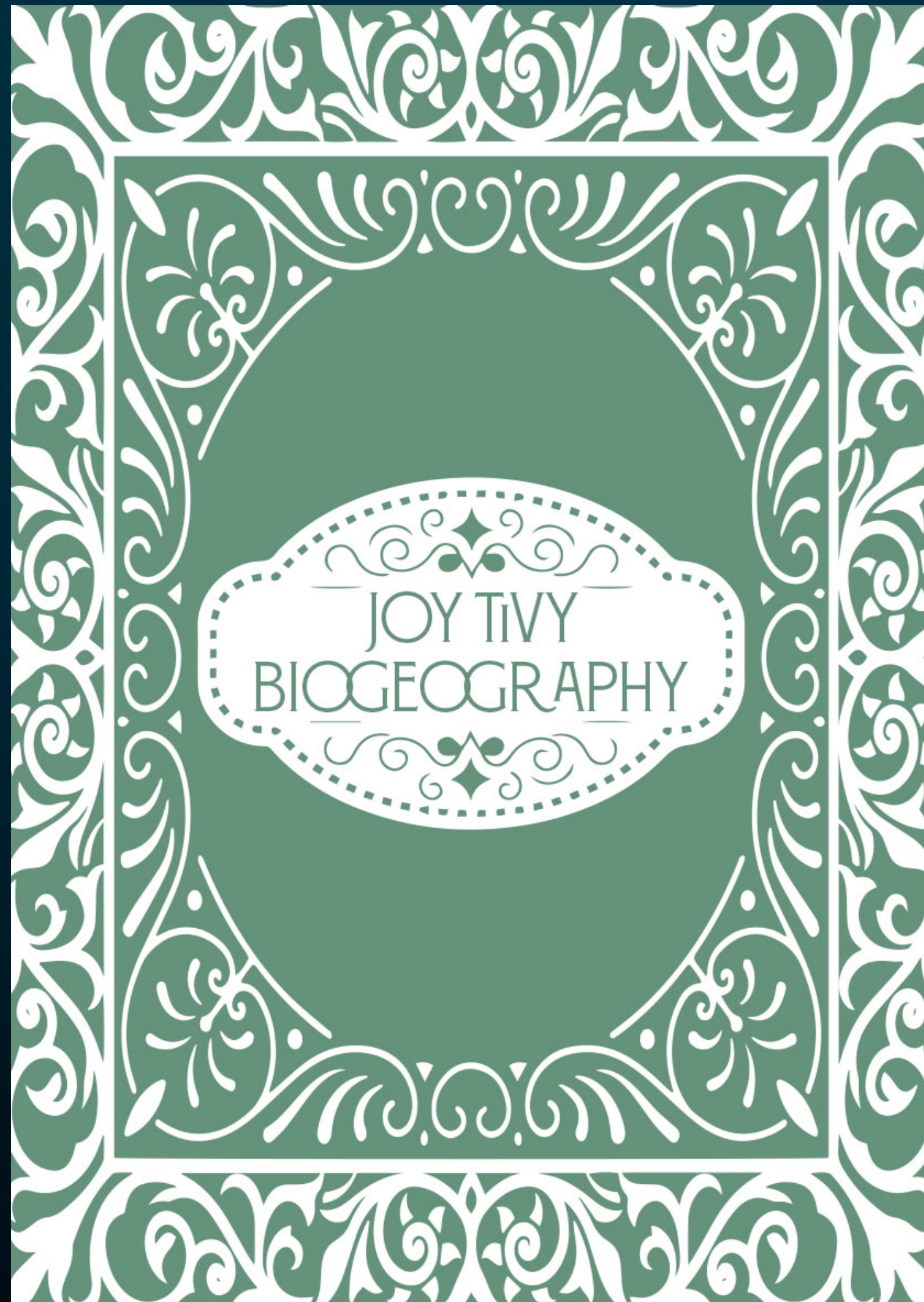
Sarah Mary Fitton's (Botanist) in the style of Susan Kare.

Designed by Jessie Cody-Evans.



Jane Stephens (Zoologist) in the style of Jacqueline Casey.

Designed by Kenzie Canavan-O'Toole.



Joy Tivy (Geographer) in the style of Louise Fili.

Designed by Kevin Zhao.



Annie Maunder (Astronomer) in the style of Cipe Pineles.

Designed by Lucy Hogan.



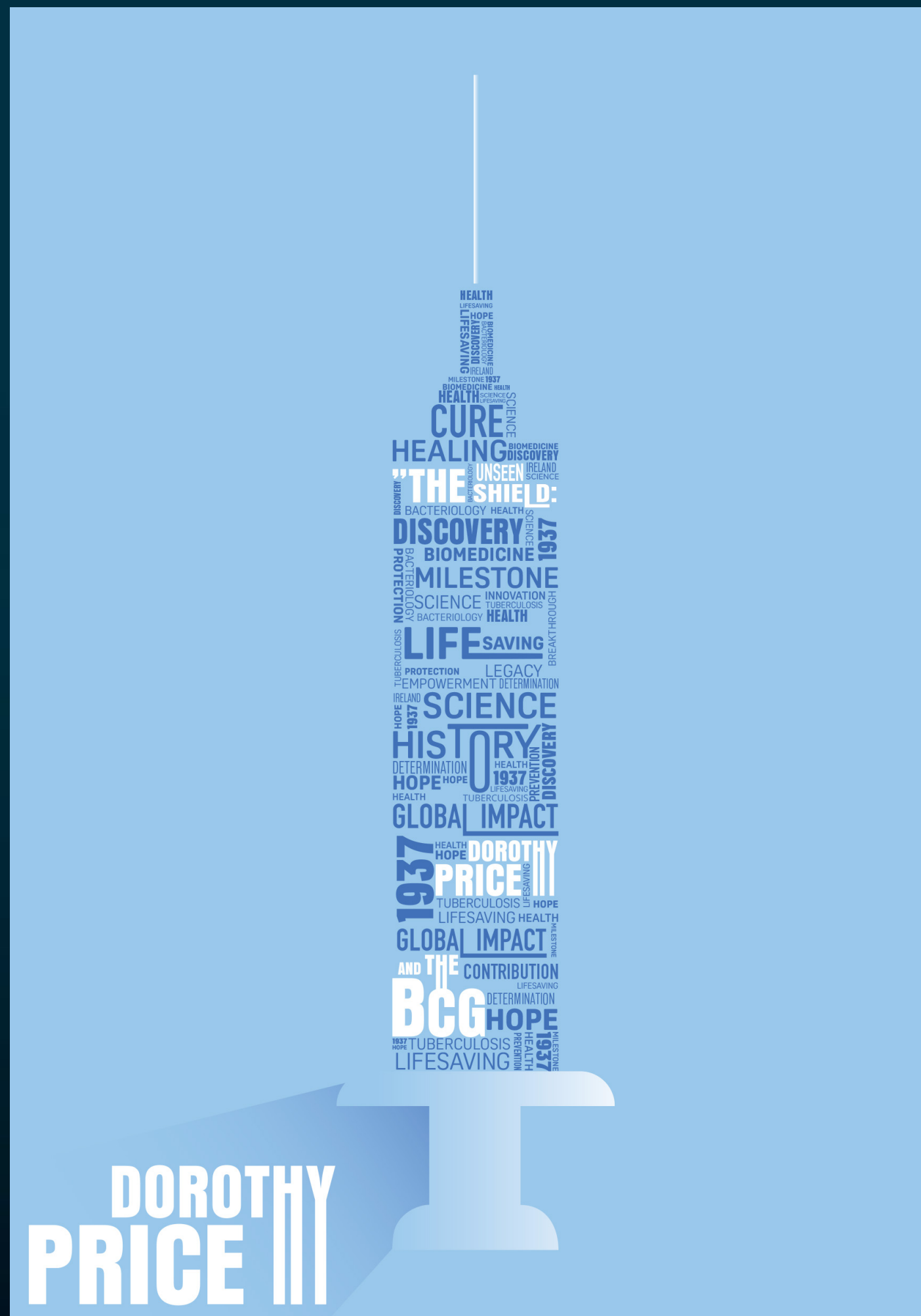
Barbara Yates (Mathematician) in the style of Camille Walala.

Designed by Meabh Mc Cabe.



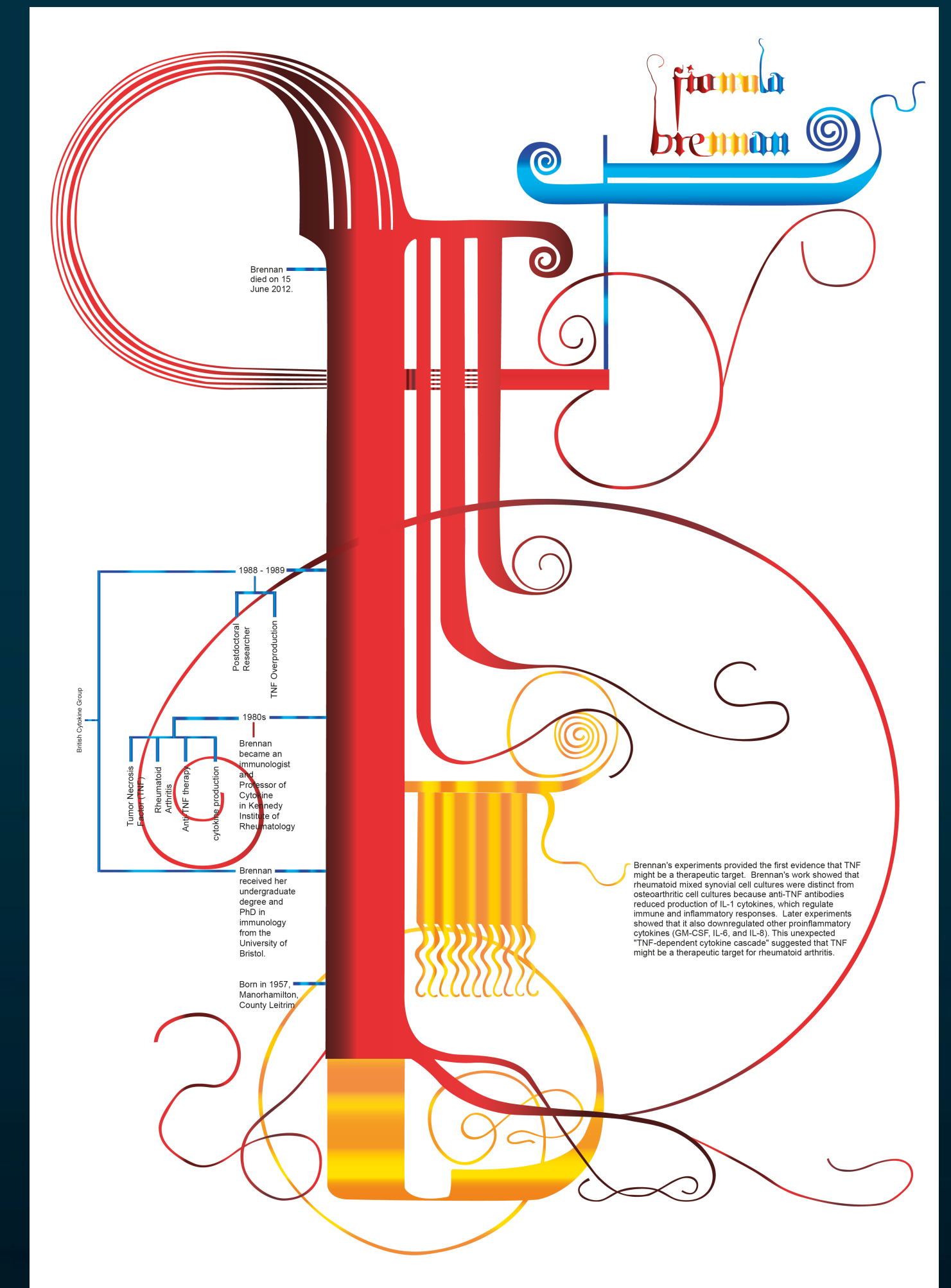
Kathleen Lonsdale (Crystallographer) in the style of Paula Scher.

Designed by Katie Moody.



Dorothy Price (Physician) in the style of Angela Guzman.

Designed by Patricia Ignat.



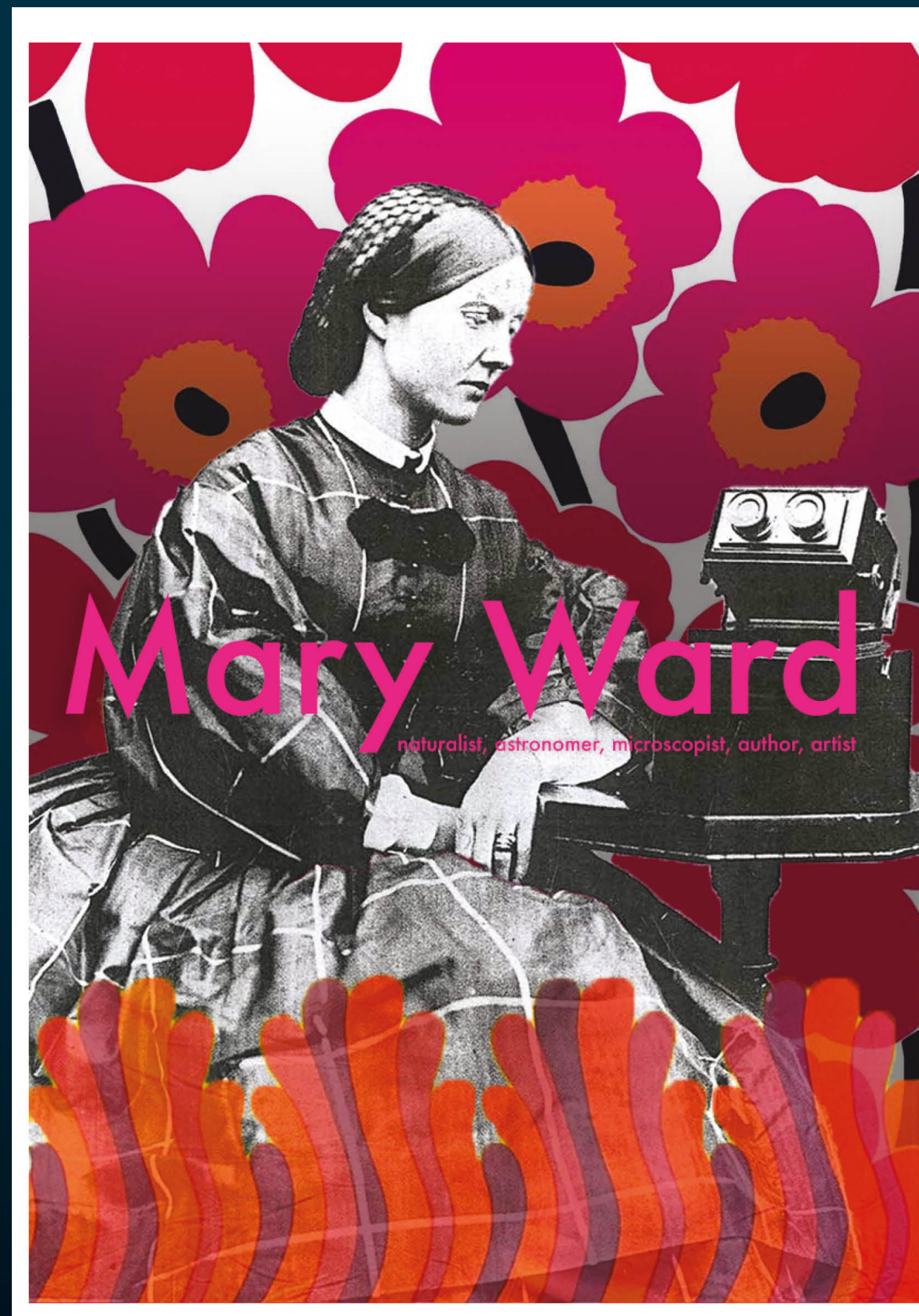
Fionnuala Brennan (Immunologist) in the style of Marian Bantjes.

Designed by Qinfei Sun.



Pearl Dunlevy (Epidemiologist) in the style of Dorothy Hayes.

Designed by Sakerly Fri (Erasmus Student).



Mary Ward (Naturalist and Astronomer) in the style of Maija Isola.

Designed by Sharon Olatunbosun.



Kathleen Antonelli (Computer Programmer) in the style of Helen Fong.

Designed by Zuzanna Jedrzejczak.

Exhibition in the East Quad



Exhibition in the East Quad



Students discuss their work with Professor John Doran



Professor Yvonne Galligan, Director of Equality, Diversity and Inclusion, opened the Hidden Scientists/Hidden Creatives exhibition, and Professor John Doran, Dean of the Faculty of Sciences and Health and acting President of TU Dublin, attended

Reflection and Outcomes

- High student engagement
- Exhibition
- Academic Article
- Better biographies and information regarding scientists
- Inclusion of Irish designers (*how did I miss that one?!*)

What next?

- Posters will be permanently housed in the GreenWay Hub
- Body of work will be added to in subsequent academic years
- New optional Module (Graphic Design for EDI) introduced in September 2024, with collaboration with the School of Architecture, Building and Environment and School of Marketing and Entrepreneurship
- Share the experience and engagement

This Project wouldn't have happened without the help of...

- Dr. Niamh Ann Kelly
- Dr. Claire Wynne
- Dr. Steve Meaney
- Dr. Jesus Maria Frias
- And the 2nd Year Visual Communications Design Students!



Q&A