



**ABOUT ME** 

A short work history

**RESEARCH METHODS** 

An overview of my mixed-methods research

**CASE STUDY 1** 

Gender, pay and freelancing

**CASE STUDY 2** 

Portfolio feedback tool

**CASE STUDY 3** UX culture at Piktochart

How to stay in touch

**CONTACT DETAILS** 





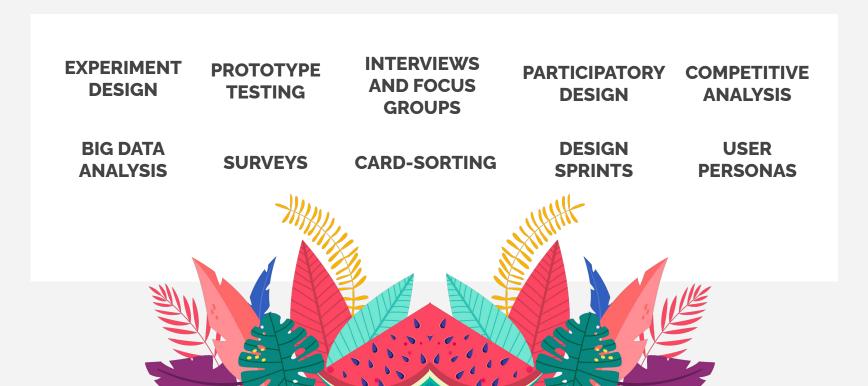
I am a UX Design Researcher and Computer
Scientist specializing in equitable design,
fully remote research methods, and building
excellent online work experiences for creators.

I was trained in Technology and Social Behavior at **Northwestern University** and have led UX research projects for **Adobe Research**, **Facebook**, the **University of Tokyo** (Japan), and **Piktochart** (Malaysia).

### **ABOUT ME**

### **MIXED-METHODS RESEARCH**

As a mixed-methods researcher, I choose research methods based on research questions, goals, as well as time and budget constraints. Here are some of the methods I've used:



# CASE STUDY 1

How might we design tools to support gender pay equity in online freelancing marketplaces?

### **PROJECT OVERVIEW**

Offline, women have historically earned less than men due to childcare responsibilities and needs for flexible work. Flexible online freelancing marketplaces, like Upwork, have the opportunity to change that by letting millions of people find work whenever and wherever they want to.

I conducted **mixed-methods research** to understand:

- 1) What is the extent of **gender rate gaps** in the online labor market?
- 2) How might **pricing strategies** account for gender rate gaps online?
- 3) How might we **design tools to support gender equity in pay and negotiation** for the flexible, online freelancing market?



#### 1: BIG DATA ANALYSIS

- Analyzed and cleaned data from 55k
   Upwork users to understand differences in bill rates
- Causal inference analysis showed women ask for \$6.28 lower bill rates than men, controlling for education, job category, and time on platform
- But women worked enough hours to surpass men in revenue, suggesting differences in pricing strategies

Publication: Foong, E., Vincent, N., Hecht, B., & Gerber, E. M. (2018). Women (still) ask for less Gender differences in hourly rate in an online labor marketplace. Proceedings of the ACM on Human-Computer Interaction, 2

#### 2: SURVEYS

- Conducted pilot survey and larger survey with 399 freelancers on Upwork to understand strategies for choosing a bill rate
- Men and women reported similar concerns with pricing (e.g., platform costs, online work experience), but factors like more women freelancing part-time could explain gaps

Publication: Foong, E, & Gerber, E. (2021, May). Understanding Gender Differences in Pricing Strategies in Online Labor Marketplaces. In Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems (pp. 1-16). View online

#### 3: PARTICIPATORY DESIGN

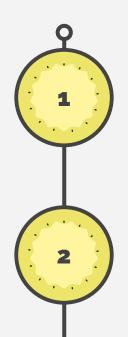
- Led 7 researchers to design and run remote participatory design workshops with 19 part-time and full-time female freelancers across the globe in less than 10 weeks to understand challenges with negotiation and rate-setting
- Analyzed social media posts related to negotiation and conducted a competitive analysis to understand high-level challenges and design empowering workshops (see next page for process)

### Introductions and Experience Banking (10 mins)

Learn about background and one pleasant and unpleasant experience to position users as experts

### Reflecting on Negotiation Best Practices (20 mins)

Present video clips from a freelancing negotiation expert about negotiation tactics and provide personalized reflection opportunities



### HOW I RUN EMPOWERING REMOTE DESIGN WORKSHOPS

### Understanding Challenges (5 mins)

Define 1-3 challenges around rate-setting or negotiation for later design activity





# HOW I RUN EMPOWERING REMOTE DESIGN WORKSHOPS

### "Crazy 6s" and Tarot Cards of Tech (20 mins)

Sketch 6 solution ideas in 4 minutes to answer the "How Might We" statement and use "tarot card" prompts to discuss top ideas



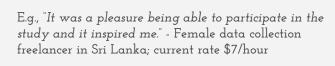
### "How Might We" Statement (5 mins)

Help the participant choose and re-frame one of their challenges about negotiation as a "How might we..." statement (e.g., "How might we prevent freelancers from accepting lowball offers from clients?")



#### **Results**

Participants leave feeling gaining something for themselves beyond pay



## KEY INSIGHTS AND DESIGN OPPORTUNITIES

Women are reluctant to try negotiation strategies because of the competition they have to build trust with online clients, and risks in sending more job proposals

#### ightarrow Design Opportunities:

- Avoid telling users to lower their rates
- Come up with alternatives to programs that create risk for applying to new jobs (e.g., Connects on Upwork)
- Remind users they can go outside a client's budget and that they have value regardless of location





"The competition on the market intimidates me...I don't want to sound too pushy and scare clients away."

-Freelance writer on  $\overline{\text{U}}\text{pwork}$  from South Africa with more than 10 paid jobs



How might we design tools to support online freelance creators in regularly improving their professional portfolios?

### **PROJECT OVERVIEW**

One of the challenges of working for yourself as a freelancer is getting access to a stable support network for career development, like constantly improving your professional portfolio. Crowdsourcing tools could provide rapid feedback on portfolios, but it is unclear how they could do this for multiple projects.

I conducted mixed-methods research to understand: How might we design crowdsourced feedback tools to provide helpful, rapid feedback on creators online portfolios?

I focused on **graphic design portfolios** in this study because of their popularity in creative communities and the ease of sharing these portfolios online (e.g., on Behance.com).





### 1: OBSERVATIONS AND INTERVIEWS

- I developed empathy for users by sitting in and observing three
   80-minute engineering portfolio design courses, conducting interviews with the course instructor and faculty mentor, and reviewing course materials and popular resources on creating graphic design portfolios
- Reflection and holistic feedback on unique skills and aesthetic style are helpful in creating portfolios

### 2: PROTOTYPING AND THINK-ALOUDS

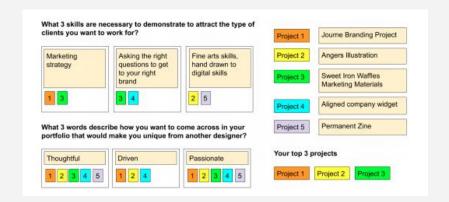
• I designed low-fi prototypes of portfolio reflection tools on paper and Google Slides and tested them with 8 freelancers (remote and local) to quickly understand specific needs with reflecting on and creating portfolios

Publication: Foong, E., Kim, J. O., Dontcheva, M., & Gerber, E. M. (2021). CrowdFolio: Understanding How Holistic and Decomposed Workflows Influence Feedback on Online Portfolios. Proceedings of the ACM on Human-Computer Interaction, 5(CSCWI), 1-31. <u>View online</u>

#### 3: EXPERIMENT

• I conducted an online experiment with 30 visual design freelancers with online portfolios, where freelancers reviewed feedback collected from online crowdworkers who could either view 1) only one project at a time, or 2) all projects at once to understand the feasibility of different methods for crowdsourcing feedback on portfolios

# LOW-FI PROTOTYPES EMPHASIZED NEED FOR SPECIFIC FEEDBACK





**Prototype 1.** Interactive reflection tool to organize projects for their portfolio based on best practices

Insights. Participants needed a way
to understand which projects
captured the most attention, beyond
their self-reflections

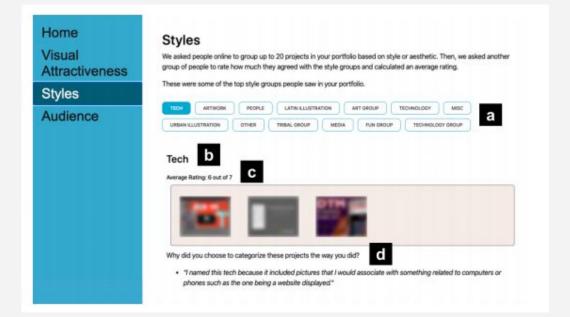


**Prototype 2.** Dashboard with crowdsourced feedback on skills, versatility and style, and visual attractiveness of projects in a portfolio.

**Insights.** Users wanted feedback on the visual attractiveness of different projects, portrayed styles, and perceived target audience of a portfolio (e.g., skills, industry)

#### **CASE STUDY 2: PORTFOLIO FEEDBACK TOOL**

# KEY INSIGHTS: CROWDFOLIO FEEDBACK TOOL





**Experiment.** I manipulated whether the freelancers would get feedback from people who saw 1 project at a time ("decomposed") or all projects at once ("holistic"), as this could affect the backend of the tool

Design Insights. Both holistic and decomposed approaches can be helpful for collecting portfolio feedback, but holistic feedback can help users better find commonalities in project style themes.



How might we setup a supportive UX research culture at a software company that empowers non-designers?

### **PROJECT OVERVIEW**

In 2014, I joined Piktochart, a global B2C/B2B software company based in Malaysia, as the first Lead UX Researcher. I was responsible for cultivating the software company's UX culture to focus on delightful user experiences for non-designers creating online infographics.

In less than 10 months, I:

- created a company tradition of weekly "User Update" presentations to familiarize all teams with core user personas
- shipped a feature to enable easy creation of data visualizations through a collaborative, cross-functional design sprint
- supported the design of 4 crucial features (template selector, color schemes, sharing, paper size) through creative remote research methods, like fully remote paper prototype testing and card-sorting using Evernote
- implemented a long-term **UX research intern program**

#### **UX CULTURE = CONSISTENT COMMUNICATION**

I developed Piktochart's first user personas based on more than 20 user interviews and communicated these personas through "User Update" infographics at weekly meetings, which helped unify communication about users across stakeholders

Below: 3 core paying users: Entrepreneurs, educators/program coordinators, and marketing professionals



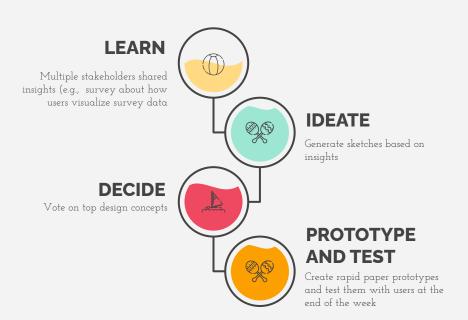


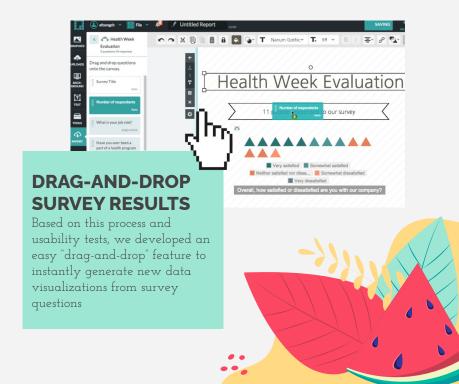




### **UX BUY-IN = COLLABORATIVE DESIGN SPRINTS**

To develop a new feature around generating easy data visualizations, I engaged developers, designers, marketing specialists, and business analysts in a 5-day design sprint







### **THANK YOU!**

Do you have any questions? eureka.foong@gmail.com eurekafoong.com

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