

# Matthew Dunbar

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## UX Researcher

I am a graduate student at Central Washington University in the MS-ITM program, with a specialization in Data Analytics. I have experience in UX Design applications such as Figma, UX Research CRM's such as Ethnio, Data Analysis skills in Excel, R and Python, and have moderated over 1k individual research sessions. I am looking for other opportunities in UX/Usability research, UX Design, Program Management, or Data Analytics.

## WORK EXPERIENCE

**Meta • 01/2022 - 01/2024**

**Redmond, Washington, United States**

### User Research Assistant

- Reality Labs Research - TPM Research, Human Subjects Research
- Supported the UX Researchers and Research Scientists on Applied Perceptual Science, Eye Tracking Research, Display Systems Research, AR Wearability, UXR, Health & Safety, and Quantified Wearability teams with recruitment, screening, coordinating, scheduling, and moderation of data collection research sessions involving human subjects research.
- Follow IRB Protocols & Submission Guidelines
- Conducted qualitative, quantitative, and mixed-methods studies.
- Conducted literature reviews on Gloves, Haptics, Hand Dominance & Eye Gaze for UX Researchers
- Assisted Research Graphics team and Display Systems Research team with Symposium Prototype demos (spring/fall 22-23')
- CV Gesture & Scene Recognition Annotations
- SOP creation for third-party vendors and Auditor of third-party annotations

**Amazon • 01/2021 - 12/2021**

**Seattle, Washington, United States**

### Data Collection Researcher (via Experis)

- ML Data Associate II, CVML @ Amazon Lab126
- I assisted Data Scientists in collecting CV data for ML algorithms on Amazon Astro, Ring Security Software, as well as Echo Show Devices.
- Mass Recruitment
- Participant Screening & Scheduling
- Shipping and Tracking of Prototype Devices
- Onboarding Participants
- Coordinating and Moderating over 1000 individual Data Collection Sessions (In person, remote, and in the field)
- Reporting Data to Stakeholders and Leadership

## EDUCATION

### **Master of Science - MS in Information Technology Management**

Central Washington University • 09/2023 - 02/2025

Specialization - Structures of Data Analytics for IT Managers

Coursework in Global Managerial Communications, Global Administrative Policy, Global Project Management, Global Supervision, Financial Analysis in IT Management, Enterprise Analytics, Reporting Data & Analytics, Research & Statistical Analysis of Data, Approaches to Data Mining, and Approaches to Data Analytics.

### **Bachelor of Arts - BA in Psychology, (Minors: Economics, Latin American Studies)**

Central Washington University • 09/2017 - 06/2020

Coursework in Behavioral Neuroscience, Behavioral Economics, Inferential Statistics, Research Methods and Design, Cognitive Psychology, Principles of Learning, Developmental Psychology, Abnormal Psychology, Spanish, Global Perspectives in Literature, Politics of US/Mexico Border, Labor Economics, Microeconomics & Macroeconomics.

### **Professional Certificate in UX & Visual Interface Design**

University of Washington • 12/2019 - 06/2020

- UX Design Thinking
- Applied UX Design
- Integrating UX with Interactive Visual Design

## CERTIFICATIONS

### **Lab and Laser Safety Training** • 08/2022 - Present

Meta Reality Labs

### **Customer Data Privacy Training** • 06/2022 - Present

Meta Reality Labs

### **Protecting Human Research Participants Training** • 01/2022 - Present

Protecting Human Research Participants (PHRP) Online Training, Inc.

### **Amazon Prototype Testing Participation and Confidentiality Notice** • 02/2021 - Present

Amazon

### **Amazon Legal Training: Customer Video and Image Privacy** • 02/2021 - Present

Amazon

### **Amazon Devices Organization and the Seller Data Protection Policy** • 02/2021 - Present

Amazon

## AWARDS & SCHOLARSHIPS

### **Member, Psi Chi International Honor Society of Psychology** • 03/2020

### **Dean's List** • 12/2019

College of the Sciences - Central Washington University

## PROJECTS

### **Extreme Gradient Boosting (XGBoost) vs Linear Regression, a California Housing Analysis •**

05/2024 - 06/2024

Central Washington University

Final project for IT686 - Approaches to Data Analytics for IT Managers This analysis uses Python and looks at the California Housing data from the 1990's. It includes various data visualization techniques such as histograms, scatterplots, and heatmaps. Two different Machine Learning Algorithms were used to predict housing prices, and the models were compared against each other for performance. Extreme Gradient Boosting vs. Linear Regression. Project Phases of Discovery, Preparation, Model Planning, Model Building, and Communicating Results and Operationalization.

### **Aid Ukraine Website Design • 03/2024 - 05/2024**

Central Washington University

Website concept designed to pair up displaced Ukrainians with donors and those willing to help with resources such as housing, financial support, food and clothes. This was a 4 person team project, and my roles were Lead Project Manager and UX Designer.

### **Company Advertisement Spend Analysis • 02/2024 - 03/2024**

Central Washington University

An analysis of a Kaggle mock dataset for Advertisement Spend of a company. Analysis included figuring out which location was the most efficient with ad spend, correlation between ad spend and product sold, regression analysis, and other data visualization techniques using Excel.

### **Project Aria • 04/2022 - 01/2024**

Meta

Research project on the future of wearable Augmented Reality. As a research device, the glasses use sensors to capture video and audio from wearer's point of view, as well as eye movement and location data to help engineers and programmers figure out how AR can work in practice. Daily activities recording using Aria Glasses as well as weekly uploading of data.

### **Hackathon • 08/2021 - 11/2021**

Amazon

This hackathon was designed to spark innovational solutions for some of the research operational issues our CVML team/org had encountered. (Hackathon Winner)

### **Echo Springs Website Design • 06/2021 - 09/2021**

Echo Springs Publishing

Website redesign for local Olympic Peninsula writer Gordon Anderson, and Echo Springs Publishing.

The goal of this project is to create a new website that is simplified, easy to navigate, and overall visually appealing. Focus on incorporating poems into design, and making the user understand the author. This project includes a mind map using Miro, moodboard, and functioning Figma prototype.

### **Escapade, a Smartphone Application Design • 03/2020 - 06/2020**

University of Washington

A smartphone application designed to get people outdoors. This project was derived from user research in the problem space of being "Distracted by Technology". This project included sitemap

sketches to digital, user flow diagram sketches and digital using Miro, wireframe development from sketches to digital, as well as design and prototyping using the software Figma.

**User Research Insight Summary Report, Distracted by Technology** • 01/2020 - 02/2020  
University of Washington

Executive summaries report to stakeholders including Insights drawn from primary and secondary research in the forms of user interviews, market research, user personas, journey map, competition and an audience summary. Understanding user needs and pain points, led to the creation of low fidelity interfaces for concept testing using Balsamiq, performed usability concept testing w/analysis, and played roles as moderator, scribe, and participant.

**PUBLICATIONS**

**Leveling the Playing Field: A Comparative Reevaluation of Unmodified Eye Tracking as an Input and Interaction Modality for VR** •  
02/2023

IEEE Transactions on Visualization and Computer Graphics, Meta Reality Labs Research

**SKILLS**

- |                              |                                 |                              |
|------------------------------|---------------------------------|------------------------------|
| • Balsamiq                   | • Microsoft PowerPoint          | • SWOT analysis              |
| • Case Studies               | • Microsoft Project             | • User Flows                 |
| • Competitive Analysis       | • Miro                          | • User Interface Design      |
| • Computer Vision            | • Mockups                       | • User Interface Prototyping |
| • Data Analysis              | • Mood Boards                   | • User Interviews            |
| • Data Annotation            | • Pivot Tables                  | • User Personas              |
| • Data Visualization         | • Prototyping                   | • User Research              |
| • Design Thinking            | • Python (Programming Language) | • User Stories               |
| • Figma                      | • Qualitative Research          | • UX Design                  |
| • Human Computer Interaction | • Quantitative Research         | • VLOOKUP                    |
| • Machine Learning           | • R (Programming Language)      | • Wireframing                |
| • Microsoft Excel            | • Style Guides                  |                              |