

Chia-Chun Yang

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EDUCATION

Ph.D. in Operations, Business Analytics, and Information Systems University of Cincinnati, Cincinnati, OH	August 2020 – Present
Master of Science in Information Systems Iowa State University, Ames, IA Minor: Statistics	August 2017
Master of Science in Global Logistics Arizona State University, Tempe, AZ	May 2015
Bachelor of Science in Physics National Chung Cheng University, Taiwan	June 2013

AWARDS & ACHIEVEMENTS

FINALIST - JUNIOR SCHOLAR PAPER COMPETITION Issuer: POMS College of Behavior in Operations Management Description: Paper title: “Effect of Shift Structure on Service-Worker Fatigue: Evidence from Emergency Department Caregivers”	May 2023
HERO AWARD Issuer: General Dynamics Information Technology Description: Chia-Chun has invested a number of hours and many long days over the past few months to ensure the timely completion and quality of the 2017 Unified Post-Acute Care Public Use File, a high priority data product for the Policy and Data Analytics Group in the Center for Medicare & Medicaid Services. This project had limited specifications and several measures, and Chia-Chun worked persistently with customer and his team to ensure that each component of the data product met customer needs	August 2019
NEW SAS PROFESSIONAL AWARD Issuer: SAS Global Forum 2019 Description: A limited number of awards are being awarded to SAS professionals who have fewer than five years of professional experience using SAS. Recognition of a SAS professional who contributes to excellent data analytics profession in the industry	May 2019
EMPLOYEE RECOGNITION AWARD – DISTINGUISHED PERFORMANCE Issuer: General Dynamics Information Technology Description: Chia-Chun has shown dedication and innovation in his work on the Comprehensive ESRD Care RMADA contract and the Chronic Condition Data Warehouse (CCW) contract work for the Policy Data and Analysis CMS team. Chia-Chun has exceeded expectations and significantly	April 2018

contributed to the quality and efficiency of projects by introducing parallel processing and automation to existing processes

RESEARCH APPOINTMENT

Doctoral Researcher

August 2021 – August 2023

Joint appointment: Department of Emergency Medicine; Department of Operations, Business Analytics, and Information Systems (OBAIS) – University of Cincinnati,
Advisors: Greg Fermann, MD (Emergency Medicine) & Craig Froehle, PhD (OBAIS)

RESEARCH

Research Interest

Healthcare and Behavioral Operations Management
The Role of Technology in Improving Operational Efficiency

Dissertation

“Designing Technology-Generated Customer Service Operations”

- *Various technologies (e.g., self-checkout systems, AI-powered service agents) are increasingly implemented in customer-service roles across many industries, such as financial, retail, and healthcare. However, customers’ decisions whether or not to use these technologies, and how much these technologies contribute to the service experience are not well known. A better understanding of what factors motivate people’s decisions to use customer-service technologies can enable operations management to improve service process designs, increase efficiency, and enhance the service experience. The guiding research question for this dissertation is how do task, environment, and system design affect customers’ choices of and experience with self-service channels? This research will use a combination of experimental and survey methods over multiple studies to gain insight into this question.*

Working Paper

Chia-Chun Yang, Craig Froehle, Elizabeth Leenellett, “Effect of Shift Structure on Service-Worker Fatigue: Evidence from Emergency Department Caregivers,” *Target: JOM*

- *Finalist, 2023 College of Behavioral OM Junior Scholar Paper Competition*

Ongoing Research

Chia-Chun Yang, Yinghao Zhang, Craig Froehle, “Effect of Task and Temporal Attributes on Customers’ Decisions to Use Self-Service Technologies”

Chia-Chun Yang, Craig Froehle, Yinghao Zhang, “Influence of Task and Anthropomorphism on Customers’ Perceived Failure Risk with an Artificial Intelligence (AI) Service Agent”

ACADEMIC SPEAKING

Upcoming Conference Presentations

INFORMS (Seattle, WA)

October 2024

“Impact of Shift Structure on Fatigue among Emergency Department Service Workers”

INFORMS (Seattle, WA)

October 2024

“Effect of Task and Temporal Attributes on Customers’ Decisions to Use Self-Service Technologies”

Invited Talks and Presentations

17th annual Behavioral Operations Conference – Young Scholar’s Workshop (Boulder, CO)	June 2024
<i>“Effects of Task, Time, and Anthropomorphism on Customers’ Decisions to Use AI-powered Service Agent”</i>	
34 th Annual POMS Conference (Minneapolis, MN)	April 2024
<i>“Effect of Task and Environmental Factors on Customers’ Decisions in Adopting Self-Service Technologies”</i>	
34 th Annual POMS Conference (Minneapolis, MN)	April 2024
<i>“The Role of Artificial Intelligence (AI) Technologies in Service Process Design”</i>	
34 th Annual POMS Conference (Minneapolis, MN)	April 2024
<i>“Designing AI-Enabled Customer Service Operations: A Behavioral Perspective”</i>	
OBAIS Brown Bag (Cincinnati, OH)	January 2024
<i>“Effect of Shift Structure on Service-Worker Fatigue: Evidence from Emergency Department Caregivers”</i>	
INFORMS (Phoenix, AZ)	October 2023
<i>“The Role of Artificial Intelligence (AI) Technologies in Service Process Design”</i>	
INFORMS (Phoenix, AZ)	October 2023
<i>“Scheduling Effects on Service-Worker Fatigue: Evidence from Emergency Department Physicians”</i>	
INFORMS Healthcare Conference (Toronto, ON Canada)	July 2023
<i>“Effect of Shift Structure on Service-Worker Fatigue: Evidence from Emergency Department Caregivers”</i>	
16th annual Behavioral Operations Conference – Young Scholar’s Workshop (Baltimore, MD)	June 20 th , 2023
<i>“Effect of Task and Environmental Factors on Customers’ Decisions in Adopting Self-Service Technologies”</i>	
33 rd Annual POMS Conference (Orlando, FL)	May 2023
<i>“Effect of Shift Structure on Service-Worker Fatigue: Evidence from Emergency Department Caregivers”</i>	
POMS College of Behavior in OM Mini-Conference (Orlando, FL)	2:00 pm EDT, May 21 st , 2023
<i>“Effect of Shift Structure on Service-Worker Fatigue: Evidence from Emergency Department Caregivers”</i>	
Emergency Medicine Research Faculty Meeting, University of Cincinnati (Cincinnati, OH)	March 2023
<i>“Scheduling And Fatigue Effects Research (SAFER) Project”</i>	
32 nd Annual POMS Conference (Virtual)	April 2022
<i>“The effect of shift structure on fatigue of frontline healthcare workers”</i>	
Iowa SAS User Group Conference (Johnston, IA)	August 2018
<i>“Working Effectively with SAS GRID”</i>	

PROFESSIONAL SERVICE

34th Annual POMS Conference: Session of Behavioral Influences in Healthcare Operations	April 2024
Session Co-Chair	
33rd Annual POMS Conference: Session of Empirical Research in Healthcare Operations	May 2023
Session Chair	
The Analytics Summit Conference, Center for Business Analytics, University of Cincinnati	May 2023
Student Volunteer	

TEACHING EXPERIENCE

Instructor: Operations Management	August 2024 – December 2024
University of Cincinnati	Cincinnati, Ohio
Instructor: Decision Modeling	June 2024 – August 2024
University of Cincinnati	Cincinnati, Ohio

Instructor: Data Analysis
University of Cincinnati

October 2023 – December 2023
Cincinnati, Ohio

Teaching Assistant: Simulation Modeling and Methods
University of Cincinnati

May 2021 – August 2021
Cincinnati, Ohio

Teaching Assistant: Management of Operations
University of Cincinnati

May 2021 – June 2021
Cincinnati, Ohio

Teaching Assistant: Adv Healthcare Data Analytics
University of Cincinnati

March 2021 – May 2021
Cincinnati, Ohio

Teaching Assistant: Healthcare Management and Operations
University of Cincinnati

January 2021 – May 2021
Cincinnati, Ohio

Teaching Assistant: Project Management
University of Cincinnati

August 2020 – December 2020
Cincinnati, Ohio

Teaching Assistant: Physics Experiment
National Chung Cheng University

February 2012 – January 2013
Chiayi, Taiwan

CERTIFICATIONS

Udemy

June 2020

Machine Learning, Data Science and Deep Learning with Python

https://www.udemy.com/certificate/UC-bfd4c2eb-4492-446a-8d5a-1ff3b7488387/?utm_medium=email&utm_campaign=email&utm_source=sendgrid.com

Oracle

August 2017

Oracle Database SQL Certified Expert

https://www.youracclaim.com/badges/41cb64b6-48cf-464a-88cf-abab1f82c4dc/public_url

SAS Institute

September 2017

SAS Certified Advanced Programmer for SAS 9

https://www.youracclaim.com/badges/5316ce07-bede-4cf8-85ba-db5a149aa9d1/linked_in_profile

SAS Institute

August 2017

SAS Certified Base Programmer for SAS 9

https://www.youracclaim.com/badges/289f6951-cbb5-4a06-8697-53e30c2932f0/linked_in_profile

Iowa State University, Ames, IA

August 2017

Business Analytics

https://drive.google.com/file/d/0Bysd4S08arI_bHEXV2ZYNi1zdFU/view

WORKING EXPERIENCE

Senior Data Analyst / Senior Statistician
General Dynamics Information Technology

November 2017 – July 2020
West Des Moines, Iowa

- Performs data management and analytic tasks for health care initiatives delivered by Center for Medicare & Medicaid (CMS)
- CMS contracts served:
 - Unified Post-Acute Care Public Use File (Unified PAC PUF)
 - Geographic Variation Public Use File (GV PUF)

- Bundled Payments for Care Improvement (BPCI) Model
- BPCI Advanced Model
- Comprehensive End State Renal Disease Care Model (CEC)
- Long-Term Institutionalized (LTI) Resident Report
- Identify efficiencies that may be used to improve processing time and space utilization; including using SAS Grid Manager for parallel processing of large Medicare claims and enrollment files. E.x. CEC contract save 82% processing time; LTI contract save 90% processing time
- Uses data knowledge to identify appropriate data sources for research questions
- Communicates with customers regarding the specifications of data products

Supply Chain Analyst (Contractor)
3M

October 2017 – November 2017
Maplewood, Minnesota

- Involved in Health Care Department Training
- Executed SAP system and participated in SAP Training
- Attended Supply Chain System Training
- Communicated with customer and colleagues to fulfill scheduling Optimization, Changeover reduction, Inventory Optimization, and Service Attainment Improvement

Spring & Summer Internship - Supply Chain Analyst
Hy-Vee, Inc.

March 2017 – August 2017
West Des Moines, Iowa

- Coordinated and participated in major transportation profitability and warehouse performance improvement initiatives and projects, specifically in modeling route analysis and improving warehouse performance
- Provided technical expertise to the purchasing department and the subsidiary- Perishable Distributors of Iowa, Ltd. by utilizing VBA, statistical methods, and working directly with logistics coordinator and buyers to visualize and ameliorate profitability and performance
- Coordinated with IT department to import logistics data to new Transportation Management System for route optimization to improve quality of future transportation profitability analysis

Summer Internship – Business Analyst
United Supplier, Inc.

May 2016 – August 2016
Ames, Iowa

- Partnered with business analysts, developers, and users on FAST project, a new in-house ERP system development on a .NET platform, gained experience with agile project management style and quality assurance control utilizing JIRA
- Concentrated on requirement collecting, quality assurance, and user training session with overall improvement for system production environment

Applied Logistics Project- Arizona State University
Trax Technologies

Jan 2015 – May 2015
Tempe, Arizona

- Analyzed complex logistics decisions and leveraged the supply chain data building up a robust, modular, cost-to-serve analysis model to optimize supply sourcing and distribution which including sourcing cost, transportation cost, custom cost, warehouse location, and lead time analysis on a global scale
- Designed Total Landed Cost model with detailed information on profitability and expense for customers
- Utilized Excel solver and linear programming algorithm to optimize Total Landed Cost

Management Specialist

July 2013 – June 2014

- Squad leader of 16 soldiers, coordinated with government representatives during typhoon season
- Avoided casualty in the 3rd quarter of 2013 by coordinating with local volunteers and government engineers to ensure the safety of residents and disaster relief delivery during typhoon season
- Initiated and led team of 16 alternative service soldiers collaborating with local charity organization on a six-month community service project
- Effectively gained approval from supervisor to reinvest into athletic facilities for military camp
- Assisted contract system developer to improve overall agency website user experience
- Increased application processes efficiency by 35% by collaborating with software technician

SKILLS

Language: Mandarin Chinese (Native) • Taiwanese (Native) • English (Proficient)

Computer: Statistical Analysis System (SAS) • Structured Query Language (SQL) • R Language • Visual Basic for Applications (VBA) • JMP • Python • Java Script • HTML • FORTRAN • Arena