

CURRICULUM VITAE**Yama (Ya-Wen) Chang**

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2018 – 2020	Teachers College, Columbia University <i>M.A. in Clinical Psychology (concentration: Research Methods), GPA: 4.0/4.0</i> <u>Master's Thesis</u> : <i>Childhood Gender Nonconformity and Identity Development Among a Diverse Transgender Community Sample in the United States</i> <u>Relevant Coursework</u> : Probability and Inferential Statistics; Applied Regression Analysis; Data Science I; Computational Psychiatry; Research Methods in Clinical Psychology; Child Psychopathology; Adult Psychopathology	New York, NY
2008 – 2012	National Taiwan University B.A. in Economics	Taipei, Taiwan
2010	Stanford University Exchange Student	Palo Alto, CA

RESEARCH EXPERIENCES

2020 – Present	Longitudinal Research Program in Late-Life Suicide R01MH085651 Department of Psychiatry, University of Pittsburgh Medical Center <u>Principal Investigator</u> : Katalin Szanto, M.D. <u>Research Area</u> : Suicide risk in late-life depression <i>Data Manager / Data Analyst</i> <ul style="list-style-type: none"> Automate the process of aggregating unstructured data using R from multiple databases, cleaning longitudinal data, transforming raw dataset into analytical base table, reducing 20 hours per month Build statistical models using R for classification and prediction, communicate results to investigators using informative graphics, and write co-authorship manuscripts Write R script to provide data-driven report monthly using RMarkdown to facilitate recruitment progress for a case-control study Manage clinical longitudinal databases in REDCap Lead independent research projects, including conceptualizing research questions into hypotheses, developing and applying analytic strategies, writing first authorship manuscripts, and present research findings at national and international conferences Attend weekly clinical case seminars, and receive suicide clinical research trainings Lead data team (team of 4) and oversee the training of new team members Mentor junior colleagues in coding and analyzing data using R programming language 	
2021 – Present	Gender Minority Youth Study (GMY Study) Department of Psychiatry, University of Pittsburgh Medical Center <u>Principal Investigator</u> : Brian Thoma, Ph.D. <u>Research Area</u> : Structural stigma and suicide risk among transgender adolescents <i>Data Analyst</i> <ul style="list-style-type: none"> Design and conduct quantitative analytic plans using R with dataset from GMY Study Explore the relationship between structural stigma and suicidal behaviors among sexual and gender minority (SGM) youth 	

2020 – Present **IASR Meta-Analysis and Systematic Review Workgroup**
Sponsored by International Academy of Suicide Research
Principal Investigator: Diana E. Clarke, Ph.D.
Research Area: Social determinants and health inequalities in relation to suicide risk with a focus on racial and sexual and gender minority groups

Co-Investigator

- Conducted systematic reviews under the guidelines of PROSPERO and draft manuscripts
- Conducted preliminary searches in databases (PubMed, EMBASE, PsycINFO, Web of Science)
- Collaborated with international researchers and discuss progress in bi-weekly meetings

2019 Summer **Stress and Development Laboratory**
Department of Psychology, Harvard University
Principal Investigator: Katie McLaughlin, Ph.D.
Research Area: Impact of childhood adversity on neurobiological mechanisms

Summer Research Assistant

- Developed stimuli presentation programs using FaceGen for fMRI task
- Compiled a list of literatures applying multi-voxel pattern analysis of fMRI tasks
- Participated in designing experiments, selecting measures, and adapting training items and stimulus using Photoshop for fMRI and EEG task
- Maintained data collection (ASEBA, CBCL) and assisted with recruitment events

2018 – 2020 **Program for the Study of LGBT Health; Project AFFIRM | R01HD079603**
Division of Gender, Sexuality, & Health
Department of Psychiatry, Columbia University Irving Medical Center
Principal Investigator: Walter Bockting, Ph.D.
Research Area: LGBTQ mental health, minority stress model

Research Assistant / Intern

- Collaborated with principal investigators to perform data analysis, data visualization, and presentation, as well as co-author ongoing manuscripts
- Led an independent research project, including developing conceptual framework, analytic strategy, and write first-author manuscript
- Transcribed 26 interview scripts and used Dedoose software for qualitative coding and thematic content analysis
- Presented papers during monthly seminars with post-doctoral scholars and faculty

2016 – 2017 **Lab of Clinical and Translational Studies**
Department of Psychiatry, Taipei City Hospital and Psychiatric Center
Principal Investigators: Po-Yu Chen, M.D., Ming-Chyi Huang, M.D., Ph.D.

Clinical Research Coordinator

- Coordinated four national grants of major depressive disorder, schizophrenia, and substance use disorder studies
- Screened, recruited, and ran 200+ sessions with participants at inpatient and outpatient settings
- Conducted literature search, participated in experiment design, selected measures, and adapted training items
- Maintained the lab's recruitment database by regularly updating participants' eligibility, interest, and participation status for ongoing studies
- Prepared and updated IRB project materials including writing annual reports
- Recruited and trained new research assistants

PUBLICATIONS

Manuscripts Under Review

1. **Chang, Y.**, Jackman, K., Dworkin, J., Singh, A., LeBlanc, A., & Bockting, W. (Under Review). Childhood Gender Nonconformity and Identity Development among a Diverse Transgender Community Sample in the United States. *Sex Roles*.
2. Paine, E., Barucco, R., **Chang, Y.**, Navalta, T., Ehrhardt, A., & Bockting, W. (Revise & Resubmit). “Too Much Trouble”: Transgender and Nonbinary People’s Experiences of Stigma, Discrimination, and Affirmation in the Workplace. *Socius*.
3. Galfalvy, H., Szücs, A., **Chang, Y.**, Buerke, M., & Szanto, K. (Under Review). Long-term suicidal ideation profiles in late-life depression and their association with prospective suicide attempt and death by suicide. *Journal of Clinical Psychiatry*.

Selected Manuscripts in Preparation

(Note: only manuscripts soon to be submitted; see “research experiences” for other ongoing projects)

1. **Chang, Y.**, Buerke, M., Galfalvy, H., & Szanto, K. (In Preparation). Childhood Trauma is Associated with Early-Onset but not Late-Onset Suicidal Behavior in Late-Life Depression.
2. Grzenda, A., **Chang, Y.**, Kirchner, S., Wang, P., & Clarke, D. (In Preparation). A Systematic Review in Psychological Effects of Gender-Affirming Hormone and Surgical Treatments on Gender Diverse Youth.

CONFERENCE PRESENTATIONS

Conference Presentations

1. Paine, E., Barucco, R., **Chang, Y.**, Navalta, T., Ehrhardt, A., & Bockting, W. (2022, April). “Too Much Trouble”: Transgender and Nonbinary People’s Experiences of Stigma, Discrimination, and Affirmation in the Workplace. Paper presented at 2022 Population Association of Americas annual conference. Atlanta, GA.
2. Calati, R., Maisto, M., Miranda, R., Thompson, L., Lesanpezeshki, M., Baiden, P., Miller, C., **Chang, Y.**, Wang, P., Grzenda, A., Kirchner, S., & Clarke, D. E. (2021, October) Ethnic discrimination and suicidal thoughts and behaviors: an international-intercontinental collaborative project for a systematic review. In G. Zalsman (Chair), *IASR Metanalysis and Systematic Review Workshop Project*. Paper presented at the 2021 IASR/AFSP International Summit on Suicide Research (held virtually).

Poster Presentations

1. **Chang, Y.**, Brown, V., Whitman, K., Dombrovski, A., & Szanto, K. (2022, April). Hippocampal MRI Volume Differences in Late-Life Suicidal Behavior. Poster presented at the IASR/AFSP International Summit on Suicide Research. Poster accepted at the Society of Biological Psychiatry (SOBP) 2022 Annual Meeting. <https://osf.io/v5cr2/>
2. Galfalvy, H., Szücs, A., Buerke, M., **Chang, Y.**, & Szanto, K. (2022, April). Long-term suicidal ideation profiles in late-life depression and their association with prospective suicide attempt and death by suicide. Poster accepted at the Society of Biological Psychiatry (SOBP) 2022 Annual Meeting.
3. **Chang, Y.**, & Bockting, W. (2021, November). Identity Development Trajectories and Childhood Gender Role Nonconformity Among a Gender and Racial Diverse Sample in the United States. Poster presented at the annual meeting of the Association for Behavioral and Cognitive Therapies (held virtually). <https://osf.io/w2shb/>

4. **Chang, Y.**, Galfalvy, H., Buerke, M., & Szanto, K. (2021, October). Age of Onset of First Suicidal Behavior Determines Risk Factor Profiles in Older Suicide Attempters – Focus on Childhood Trauma Experiences. Poster presented at the IASR/AFSP International Summit on Suicide Research (held virtually). <https://osf.io/xtakn/>
5. **Chang, Y.**, Brown, V., Whitman, K., Dombrowski, A., & Szanto, K. (2021, October). Hippocampal MRI Volume Differences in Late-Life Suicidal Behavior. Poster presented at the IASR/AFSP International Summit on Suicide Research (held virtually). <https://osf.io/v5cr2/>
 - Nominated as a poster finalist (Top 10) for the early career researcher best poster award
6. **Chang, Y.**, Galfalvy, H., Buerke, M., & Szanto, K. (2021, October). The Relationship of Childhood Trauma Experiences with the Age of Onset of First Suicidal Behavior in Late-Life Depression. Poster presented at the Pitt Psychiatry Research Day. Pittsburgh, PA. <https://osf.io/xtakn/>
7. **Chang, Y.**, & Malgaroli, M. (2021, April). Longitudinal Predictors of Non-Suicidal Self-Injury among Gender Diverse Population: Machine Learning Approaches. Poster presented at the annual Diversifying Clinical Psychology Conference, Council of University Directors of Clinical Psychology (held virtually).
8. **Chang, Y.**, & Chen, S. (2020, November). Identifying School-Based Intervention Targets for the Risk of Suicide Attempt Amongst Gender Questioning Youth. Poster presented at the annual meeting of the Association for Behavioral and Cognitive Therapies (held virtually). <https://osf.io/pbmnt/>
9. Tang, S., & **Chang, Y.** (2020, August). Mental health disparities among LGBTQ Asian and Pacific islander youth: A cross sectional analysis (held virtually). Poster presented at the American Psychological Association Convention.
10. **Chang, Y.**, & Bockting, W. (2020, June). Childhood gender nonconformity and identity development among a diverse transgender community sample in the United States. Poster presented at the annual Journal of Clinical Child and Adolescent Psychology (JCCAP) Future Directions Forum (held virtually). <https://osf.io/65fdk/>

INVITED PRESENTATIONS

1. **Chang, Y.** (2022, April) *Career Talk: Finding and Interviewing for Post-Bacc Positions as an International Student*. Invited talk presented at NextGen Psych Scholars Program (held virtually).
2. **Chang, Y.**, Schumacher, E., & Brian Thoma (2022, April) *The Relationship Between Structural Stigma and Suicidal Thoughts and Behaviors among SGM Youth*. Invited talk presented at the Enrichment Meeting at Longitudinal Research Program in Late-Life Suicide at UPMC Psychiatry, Pittsburgh, PA.
3. **Chang, Y.** (2021, August) *The Relationship of Childhood Trauma Experiences with the Age of Onset of First Suicidal Behavior in Late-Life Depression*. Invited talk presented at the Enrichment Meeting at Longitudinal Research Program in Late-Life Suicide at UPMC Psychiatry, Pittsburgh, PA. <https://osf.io/nqc8e/>
4. Galfalvy, H., Buerke, M., & **Chang, Y.** (2021, May) *Suicidal Ideation Trajectories: Identifying Suicidal Subtypes*. Invited talk presented at the Enrichment Meeting at Longitudinal Research Program in Late-Life Suicide at UPMC Psychiatry, Pittsburgh, PA.
5. Brown, V. & **Chang, Y.** (2021, April) *Morphometric Alterations in Late-Life Suicide and Relationships with Cognitive Decline*. Invited talk presented at the Enrichment Meeting at Longitudinal Research Program in Late-Life Suicide at UPMC Psychiatry, Pittsburgh, PA. <https://osf.io/ng4wx/>
6. **Chang, Y.** (2021, April) *Career Talk: How to create a position for yourself during pandemic (as an international student)*. Invited talk presented at the Teachers College, Columbia University, New York, NY. <https://osf.io/zdt84/>
7. **Chang, Y.** & O'Brien, E. (2020, August) *Discussion about "Association of Suicide Prevention Interventions with Subsequent Suicide Attempts, Linkage to Follow-up Care, and Depression Symptoms for Acute Care Settings."* Invited talk presented at the cross-department seminar at UPMC Psychiatry, Pittsburgh, PA. <https://osf.io/xuz5w/>

8. **Chang, Y.** (2019, September) *Childhood Gender Nonconformity among Project AFFIRM participants*. Project AFFIRM Cross-State Weekly Meeting at Columbia Psychiatry, New York, NY
9. **Chang, Y.** (2019, July) *Childhood Gender Nonconformity and Identity Development among a Diverse Transgender Community Sample in the United States* at Program for the Study of LGBT Health monthly meeting, Columbia Nursing School, New York, NY

CLINICAL EXPERIENCES

2017 – 2018 **Taiwan LGBT Hotline Association**
Supervisor: Chia-Wei Shiu, MSW

Crisis Counselor

- Answered to 350+ callers and committed 15+ hours a week, including weekly clinical supervision
- Completed an intensive 16-week clinical training on people centered counseling techniques, crisis management, and interventions
- Passed a selective screening process to become a crisis counselor from a pool of trainees
- Wrote clinical reports after each call and presented complex calls to discuss goals and difficulties during weekly group supervision

2017 **Persons with HIV/AIDS Rights Advocacy Association of Taiwan**
Supervisor: Chester Chang, MSW

Crisis Counselor

- Completed an intensive 8-week clinical training with an emphasis on people centered counseling techniques, crisis management, and appropriate HIV/AIDS interventions
- Provided education about HIV/AIDS and instruction on prevention to callers
- Attended weekly clinical supervision

2016 – 2017 **Lab of Clinical and Translational Studies**
Department of Psychiatry, Taipei City Hospital and Psychiatric Center
Advisors: Po-Yu Chen, M.D., Ming-Chyi Huang, M.D., Ph.D.

Research Clinician (Inpatient and Outpatient Units)

- Conducted clinical interviews and cognitive tests for research studies
- Administered the Structured Clinical Interview-PANSS (SCI-PANSS) to evaluate symptom severity for participants with schizophrenia
- Administered the Columbia–Suicide Severity Rating Scale (C-SSRS), Hamilton Anxiety Rating Scale (HAM-A) and Montgomery-Asberg Depression Scale (MADRS) to evaluate symptom severity for participants with major depressive disorder
- Observed administrations of the M.I.N.I. and the Structured Clinical Interview (SCID) for DSM-5 by licensed clinicians to psychiatric inpatients
- Shadowed psychiatrists during diagnostic evaluations with outpatients and inpatients

AWARDS & HONORS

2021 **Queer in STEM Scholarship (\$1250)**, oSTEM & Queer in AI
 2021 **Poster Finalist (Top 10)**, IASR/AFSP International Summit on Suicide Research
 2020 **Awarded A+** in Computational Psychiatry, Teachers College (TC), Columbia University
 • Only given in rare circumstances per school policy; awarded for exceptional research project
 2019 **Program Ambassador**, Dept. of Counseling and Clinical Psychology, TC, Columbia University
 2019 **Graduate Representative Speaker**, Admitted Student Day Student Panel, TC, Columbia University
 2019 **Psi Chi Psychology Honors Society**, TC, Columbia University

2018 Teachers College Scholarship (\$2,500, Merit-based), TC, Columbia University

TEACHING EXPERIENCES

- 2021 **R Workshop**
Designed materials and developed a workshop to teach R programming for beginners. The workshop included four sessions, including introduction to R, data wrangling, tidying data, data visualization, and data analysis. Please find my slides and R scripts on my [GitHub](https://github.com/yamachang/R_workshop_2021fall) (https://github.com/yamachang/R_workshop_2021fall).
- 2017-2018 **GRE Quantitative Tutor**
Helped college student to improve their score percentile from 30% to 80% for the GRE quantitative test. [My GRE Quantitative percentile: 95% (169/170)].

SKILLS

Statistical/Programming: R (Tidyverse, RMarkdown, Rshiny, Plotly), Python, SQL, SPSS, HTML, Bash, GitHub
Advanced Quantitative Modeling: Gaussian mixed modeling, survival analysis, cluster analysis, logistic regression, multilevel regression analysis, supervised/unsupervised machine learning (e.g., regularized logistic regressions, decision tree, network analysis)
Research Data Management: REDCap, OSF, Qualtrics, Dedoose, Sysrev, Zotero
Neuroimaging Skills: FreeSurfer, FaceGen
Relevant Graduate-level Coursework: Research Methods in Clinical Psychology; Child Psychopathology; Adult Psychopathology; Applied Regression Analysis; Data Science in R; Computational Psychiatry
Additional Coursework: HarvardX PH125.8x Data Science: Machine Learning
Additional Qualifications/Training: CITI Training Certification (Social and Behavioral Science Human Subjects),
Languages: English, Mandarin

PROFESSIONAL AFFILIATIONS

- 2019 – Present Association for Psychological Science
 2019 – Present Association for Behavioral and Cognitive Therapies; Sexual and Gender Minority Interest Group
 2018 – Present American Psychological Association of Graduate Students; APA Division 44