

# Matthew Hamilton

HEALTH ECONOMIST

Orygen

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## Qualifications

### Monash University

PHD CANDIDATE

Melbourne, Australia

2022 - Present

### National University of Ireland Galway

MSC - HEALTH ECONOMICS (FIRST CLASS GRADE AVERAGE)

Galway, Ireland

2013

### University of Limerick

BBS - ECONOMICS & ACCOUNTANCY WITH FRENCH

Limerick, Ireland

1997

## Employment and Appointments

### Orygen

SENIOR POLICY ANALYST, LECTURER IN HEALTH ECONOMICS AND LEAD - HEALTH ECONOMICS

Melbourne Australia

April 2015 - Present

### University of Manchester

HONORARY SENIOR LECTURER IN POPULATION HEALTH, HEALTH SERVICES RESEARCH AND PRIMARY CARE

Manchester, UK

October 2018 - October 2021

### University of Manchester

RESEARCH ASSOCIATE - HEALTH ECONOMICS

Manchester, UK

October 2013 - March 2015

### Leading Edge Group

CONSULTANT AND COURSE DIRECTOR- HEALTH ECONOMICS AND POLICY

Cobh, Ireland

April 2012 - Present

### UnitingCare NSW.ACT

RESEARCH AND DEVELOPMENT MANAGER - PREVENTATIVE MENTAL HEALTH

Sydney, Australia

July 2013 - September 2013

### Orygen Youth Health Research Centre

SENIOR POLICY ADVISER

Melbourne, Australia

March 2010 - March 2012

### Fundacion Rose, Trust for the Americas and Footprint Travel Guide

TEACHER, CONSULTANT AND RESEARCHER

Central America and Caribbean

January 2008 - March 2010

### The One Foundation

PORTFOLIO MANAGER - MENTAL HEALTH

Dublin, Ireland

September 2005 - August 2007

### Orygen Youth Health Research Centre

POLICY ANALYST

Melbourne, Australia

January 2004 - June 2005

### The Wheel

HEAD OF POLICY, RESEARCH & COMMUNICATIONS

Dublin, Ireland

September 2001 - September 2003

### Silver Apples Media

CO-FOUNDER AND DIRECTOR OF FINANCE AND OPERATIONS

Dublin, Ireland

October 1998 - March 2001

## Peer-reviewed publications

### Implementing a combined individual placement and support and vocational peer work program in integrated youth mental health settings

MB SIMMONS, G CHINNERY, S WHITSON, S BOSTOCK, J BRAYBROOK, M HAMILTON, ...

Early Intervention in Psychiatry

2023 - 3 cites

### Accelerating youth mental health services research

SM COTTON, KM FILIA, MP HAMILTON, CX GAO, JM MENSINK, N TELFORD, ...

Australasian Psychiatry

2023 - 0 cites

### Response to Allison et al.(2022)'Hearspace early intervention for psychosis in Australia: Is it still a "best buy"?'

E BROWN, E KILLACKEY, M HAMILTON, A THOMPSON, P MCGORRY

Australasian Psychiatry

2023 - 0 cites

## Social inclusion, intersectionality, and profiles of vulnerable groups of young people seeking mental health support

K FILIA, J MENSSINK, CX GAO, D RICKWOOD, M HAMILTON, SE HETRICK, ...

*Social Psychiatry and Psychiatric Epidemiology*  
2022 - 13 cites

## Providing a pathway to community-based psychosocial or mental health support services for young people following initial encounters with police: a scoping review

D BAKER, K FISHER, M HAMILTON, S RICE, R PURCELL

*Current Issues in Criminal Justice*  
2022 - 2 cites

## Heterogeneity of quality of life in young people attending primary mental health services

SM COTTON, MP HAMILTON, K FILIA, JM MENSSINK, L ENGEL, C MIHALOPOULOS, ...

*Epidemiology and Psychiatric Sciences*  
2022 - 2 cites

## Study protocol for the Multimodal Approach to Preventing Suicide in Schools (MAPSS) project: a regionally based randomised trial of an integrated response to suicide risk among ...

SJ BYRNE, E BAILEY, M LAMBLIN, S MCKAY, J PIRKIS, C MIHALOPOULOS, ...

*Trials*

2022 - 1 cites

## Inequalities in Access to Mental Health Treatment by Australian Youths During the COVID-19 Pandemic

CX GAO, LP McDONALD, MP HAMILTON, K SIMONS, JM MENSSINK, K FILIA, ...

*Psychiatric Services, Appl. Ps.*

2022 - 1 cites

## Mental health systems modelling for evidence-informed service reform in Australia

H WHITEFORD, N BAGHERI, S DIMINIC, J ENTICOTT, CX GAO, M HAMILTON, ...

*Australian & New Zealand Journal of Psychiatry*  
2022 - 1 cites

## Identifying and managing psoriasis-associated comorbidities: the IMPACT research programme

L CORDINGLEY, PA NELSON, L DAVIES, D ASHCROFT, C BUNDY, ...

2022 - 1 cites

## Multi-route respiratory infection: when a transmission route may dominate

CX GAO, Y LI, J WEI, S COTTON, M HAMILTON, L WANG, BJ COWLING

*Science of the Total Environment*  
2021 - 41 cites

## Clinical and functional characteristics of a subsample of young people presenting for primary mental healthcare at headspace services across Australia

K FILIA, D RICKWOOD, J MENSSINK, CX GAO, S HETRICK, A PARKER, M HAMILTON, ...

*Social Psychiatry and Psychiatric Epidemiology*  
2021 - 19 cites

## The psychometric characteristics of the Kessler Psychological Distress Scale (K6) in help-seeking youth: What do you miss when using it as an outcome measure?

SM COTTON, J MENSSINK, K FILIA, D RICKWOOD, IB HICKIE, M HAMILTON, ...

*Psychiatry Research*

2021 - 12 cites

## Development of a graphic medicine-enabled social media-based intervention for youth social anxiety

S RICE, B O'BREE, M WILSON, C MCENERY, MH LIM, M HAMILTON, J GLEESON, ...

*Clinical Psychologist*

2021 - 10 cites

## Perceived need for neuropsychological assessment according to geographic location: A survey of Australian youth mental health clinicians

G DELAGNEAU, SC BOWDEN, K VAN-DER-EL, S BRYCE, M HAMILTON, S ADAMS, ...

*Applied Neuropsychology: Child*

2021 - 2 cites

## The youth online training and employment system: Study protocol for a randomized controlled trial of an online vocational intervention for young people with mental ill health

MB SIMMONS, J NICHOLAS, G CHINNERY, S O'SULLIVAN, S D'ALFONSO, ...

*Early Intervention in Psychiatry*

2021 - 1 cites

## Police diversion to community-based psychosocial or mental health support for young people: a scoping review protocol

D BAKER, K FISHER, M HAMILTON, S RICE, R PURCELL

2021 - 0 cites

## Leveraging the social network for treatment of social anxiety: pilot study of a youth-specific digital intervention with a focus on engagement of young men

S RICE, B O'BREE, M WILSON, C MCENERY, MH LIM, M HAMILTON, J GLEESON, ...

*Internet Interventions*

2020 - 39 cites

## Compensatory interventions for cognitive impairments in psychosis: a systematic review and meta-analysis

K ALLOTT, K VAN-DER-EL, S BRYCE, EM PARRISH, SR MCGURK, S HETRICK, ...

*Schizophrenia Bulletin*

2020 - 33 cites

## Youth access clinics in Gippsland: Barriers and enablers to service accessibility in rural settings

E DOLAN, K ALLOTT, A PROPOSCH, M HAMILTON, E KILLACKEY

*Early Intervention in Psychiatry*

2020 - 7 cites

<b>Thematic analysis of youth mental health providers' perceptions of neuropsychological assessment services</b>	<i>Early Intervention in Psychiatry</i>
G DELAGNEAU, SC BOWDEN, S BRYCE, K VAN-DER-EL, M HAMILTON, S ADAMS, ...	2020 - 3 cites
<b>Need for clinical neuropsychological assessment in headspace youth mental health services: A national survey of providers</b>	<i>Australian Journal of Psychology</i>
K ALLOTT, K VAN-DER-EL, S BRYCE, M HAMILTON, S ADAMS, L BURGAT, ...	2019 - 9 cites
<b>Moderated online social therapy for depression relapse prevention in young people: pilot study of a 'next generation'online intervention</b>	<i>Early Intervention in Psychiatry</i>
S RICE, J GLEESON, C DAVEY, S HETRICK, A PARKER, R LEDERMAN, G WADLEY, ...	2018 - 99 cites
<b>Motivational interviewing-based training enhances clinicians' skills and knowledge in psoriasis: findings from the Pso Well® study</b>	<i>British Journal of Dermatology</i>
A CHISHOLM, PA NELSON, CJ PEARCE, AJ LITTLEWOOD, K KANE, AL HENRY, ...	2017 - 36 cites
<b>Identifying attributes of care that may improve cost-effectiveness in the youth mental health service system</b>	<i>Medical Journal of Australia</i>
MP HAMILTON, SE HETRICK, C MIHALOPOULOS, D BAKER, V BROWNE, ...	2017 - 33 cites
<b>Broken promises and missing steps in mental health reform</b>	<i>The Medical Journal of Australia</i>
PD MCGORRY, MP HAMILTON	2017 - 13 cites
<b>Targeting mental health care attributes by diagnosis and clinical stage: The views of youth mental health clinicians</b>	<i>Medical Journal of Australia</i>
MP HAMILTON, SE HETRICK, C MIHALOPOULOS, D BAKER, V BROWNE, ...	2017 - 7 cites
<b>Stepwise expansion of evidence-based care is needed for mental health reform</b>	<i>Medical Journal of Australia</i>
PD MCGORRY, MP HAMILTON	2016 - 11 cites
<b>Response to Jorm: Headspace-A national and international innovation with lessons for redesign of mental health care in Australia</b>	<i>Australian and New Zealand Journal of Psychiatry</i>
P MCGORRY, M HAMILTON, S GOLDSTONE, D RICKWOOD	2016 - 9 cites
<b>Response to Allison et al., 'The National Mental Health Commission Report: Evidence based or ideologically driven?'</b>	<i>The Australian and New Zealand Journal of Psychiatry</i>
PD MCGORRY, S GOLDSTONE, K PENNELL, M HAMILTON	2016 - 2 cites
<b>Calculating when elective abdominal aortic aneurysm repair improves survival for individual patients: development of the Aneurysm Repair Decision Aid and economic evaluation.</b>	<i>Health Technology Assessment</i>
SW GRANT, M SPERRIN, E CARLSON, N CHINAI, D NTAIS, M HAMILTON, G DUNN, ...	2015 - 25 cites
<b>Psoriasis treatment and management—a systematic review of full economic evaluations</b>	<i>British Journal of Dermatology</i>
MP HAMILTON, D NTAIS, CEM GRIFFITHS, LM DAVIES, ...	2015 - 12 cites
<b>The IMPACT programme in psoriasis: phase I—where we are now and future directions</b>	<i>Dermatological Nursing</i>
PA NELSON, DM ASHCROFT, C BUNDY, CA CHEW-GRAHAM, A CHISHOLM, ...	2015 - 2 cites

## Non-peer-reviewed publications

<b>Predicting Quality Adjusted Life Years in young people attending primary mental health services</b>	<i>MedRxiv</i>
MP HAMILTON, CX GAO, KM FILIA, JM MENSSINK, S SHARMIN, N TELFORD,...	2021
<b>An investment framework to build mental capital in young people</b>	<i>Orygen</i>
D MCDAID, M HAMILTON, D KING, A-LA PARK, M SCOPEL HOFFMANN, W SILVA-RIBEIRO,...	2020
<b>Submission to the Productivity Commission Inquiry into Mental Health</b>	<i>Orygen</i>
ORYGEN AND HEADSPACE [CONTRIBUTING AUTHOR]	2019
<b>Submission to the Medicare Benefits Schedule Review Taskforce</b>	<i>Orygen</i>
ORYGEN [LEAD AUTHOR]	2015
<b>Developing a youth suicide prevention strategy for Tasmania: A review of the literature</b>	<i>Orygen</i>
J ROBINSON, E BAILEY, S HETRICK, S DESILVA, N REAVLEY, B BASSILIOS, ...	2015

## Current and emerging issues for National Health and Medical Research Council Fellowship Schemes

ORYGEN [CONTRIBUTING AUTHOR]

Orygen

2015

## Senate inquiry submission: Medical Research Future Fund

ORYGEN [LEAD AUTHOR]

Orygen

2015

## The economic costs of communications inefficiency in Irish Hospital Pharmacy

M HAMILTON

Hospital Pharmacy News

2015

## Preliminary survey report on communications inefficiencies in Irish hospital medicines management: cost impact and priorities for action

M HAMILTON

Leading Edge Group

2013

## Adding value to community pharmacy

M HAMILTON, J AHERNE, T FANNON, AND J BISHOP..

Leading Edge Group

2012

## Including, connecting, contributing: A blueprint to transform mental health and social participation in Australia

D CAPPO, PD MCGORRY, IB HICKIE, S ROSENBERG., J MORAN. AND M HAMILTON.

Independent Mental Health Reform Group

2011

## Submission to the Senate Community Affairs Committee Inquiry into Commonwealth funding and administration of mental health services

PD MCGORRY P.D. AND M HAMILTON

Orygen

2011

## Ten year policy framework to support the mental health of young Australians

PD MCGORRY P.D. AND M HAMILTON

Orygen

2011

## Scientific Software

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### DOCUMENTATION

All software itemised in this section is documented at:

<https://www.ready4-dev.com>

### R CODE LIBRARIES

## A software framework for ethical computational modelling

### ready4 - Implement Transparent, Reusable and Updatable Computational Economic Models

MATTHEW HAMILTON

<https://doi.org/10.5281/zenodo.5606250>

01 June 2023

### ready4class - Author Ready4 Model Modules

MATTHEW HAMILTON AND GLEN WIESNER

<https://doi.org/10.5281/zenodo.5640313>

30 May 2023

### ready4fun - Author and Document Functions to Implement Ready4 Algorithms

MATTHEW HAMILTON AND GLEN WIESNER

<https://doi.org/10.5281/zenodo.5611779>

30 May 2023

### ready4pack - Author R Packages of Ready4 Model Modules

MATTHEW HAMILTON

<https://doi.org/10.5281/zenodo.5644322>

30 May 2023

### ready4show - Author Literate Programs to Implement and Report Modelling Analyses

MATTHEW HAMILTON AND GLEN WIESNER

<https://doi.org/10.5281/zenodo.5644568>

02 June 2023

### ready4use - Retrieve, Label and Share Model Datasets

MATTHEW HAMILTON AND GLEN WIESNER

<https://doi.org/10.5281/zenodo.5644336>

04 June 2023

## Modelling the people, places, platforms and programs important to youth mental health

### aus - Model Australian Spatial Data with Ready4

MATTHEW HAMILTON

<https://doi.org/10.5281/zenodo.7687126>

14 June 2023

### heterodox - Explore and Characterise Heterogeneity in Quality of Life Data

CAROLINE GAO AND MATTHEW HAMILTON

<https://doi.org/10.5281/zenodo.5751193>

14 June 2023

### scorz - Score Multi-Attribute Instruments

MATTHEW HAMILTON AND CAROLINE GAO

<https://doi.org/10.5281/zenodo.5722708>

07 June 2023

### specific - Specify Models to Solve Inverse Problems

MATTHEW HAMILTON AND CAROLINE GAO

<https://doi.org/10.5281/zenodo.5768689>

13 June 2023

### TTU - Implement Transfer to Utility Mapping Algorithms with Ready4

CAROLINE GAO AND MATTHEW HAMILTON

<https://doi.org/10.5281/zenodo.5646593>

14 June 2023

### vicinity - Model Spatial Attributes with Ready4

MATTHEW HAMILTON

<https://doi.org/10.5281/zenodo.7623630>

14 June 2023

### youthu - Transform Youth Outcomes to Health Utility Predictions with Ready4

MATTHEW HAMILTON AND CAROLINE GAO

<https://doi.org/10.5281/zenodo.5646668>

04 June 2023

### youthvars - Describe and Validate Person Records for Use in Youth Mental Health Models

MATTHEW HAMILTON AND CAROLINE GAO

<https://doi.org/10.5281/zenodo.5646550>

09 June 2023

## EXECUTABLES & USER INTERFACES

Programs (study design and analysis): <https://www.ready4-dev.com/docs/software/executables/programs/>

Subroutines (reporting templates): <https://www.ready4-dev.com/docs/software/executables/subroutines/>

User-interfaces (interactivity): <https://www.ready4-dev.com/docs/software/user-interfaces/>

## Presentations

### A prototype software framework for ethical implementations of computational economic models in youth mental health

MP HAMILTON

Monash University, Melbourne

Seminar - 2023

### Generating Economic Insights From Mental Health Service Data - A Utility Mapping Study

MP HAMILTON

Society of Mental Health Research,  
Hobart

Oral - 2022

### Youth Outcomes To Health Utility (youthu) - Increasing economic insight from mental health service data

MP HAMILTON

The Mental Health Services  
Conference, Melbourne

Oral - 2021

### Improving outcome measurement in headspace

SM COTTON, CX GAO AND MP HAMILTON

Orygen, Melbourne

Seminar - 2021

### A workflow for replicable data synthesis and simulation research in mental health

MP HAMILTON

Orygen, Melbourne

Seminar - 2020

### Supporting collaborative approaches to building better mental health models

MP HAMILTON

University of Sydney COVID  
Modelling Webinar

Webinar - 2020

<b>A framework for modelling the predicted impact of policy options to promote mental health in young people</b>	University of Queensland, Brisbane
MP HAMILTON	Workshop - 2020
<b>A framework for modelling the anticipated impact of policy options to promote resilience in children and young people</b>	Victoria University, Melbourne
A PARKER, P PLENCNEROVA, G WIESNER AND MP HAMILTON	Seminar - 2019
<b>A novel, open source evidence synthesis and simulation toolkit to represent the changing spatial environment in which mental health policy is implemented</b>	International Conference on Youth Mental Health, Brisbane
MP HAMILTON, A MACDONALD, R CALLANAN, S PROBER, G WIESNER, P PLENCNEROVA	Poster - 2019
<b>Readyforwhatsnext: an open source framework for developing simulation models of emerging mental disorder</b>	Orygen, Melbourne
MP HAMILTON AND G WIESNER	Seminar - 2019
<b>A framework for modelling the anticipated impact of policy options to promote resilience in children and young people</b>	Society of Mental Health Research, Melbourne
M HAMILTON, A PARKER, P PLENCNEROVA, G WIESNER, J KARNON AND C MIHALOPOULOS	Oral - 2019
<b>Developing open source tools in R for the synthesis, generation and analysis of youth mental health data</b>	Orygen, Melbourne
MP HAMILTON	Seminar - 2018
<b>Developing an open source data analytic toolkit for optimising early psychosis services</b>	Society of Mental Health Research, Noosa
MP HAMILTON	Oral - 2018
<b>EPSOS Toolkit Epidemiology module: Current status and future development</b>	Headspace Early Psychosis Program Forum - Perth
MP HAMILTON	Oral - 2018
<b>Mental health, wellbeing and resilience: Tools and frameworks for agent based models</b>	University of Adelaide
MP HAMILTON	Seminar - 2018
<b>Eliciting and valuing preferences in youth mental health. Discrete Choice Experiment Workshop</b>	Orygen, Melbourne
S WALSH AND MP HAMILTON	Workshop - 2018
<b>Improving the cost-effectiveness of early psychosis services: concepts, evidence and potential directions</b>	Australian Early Psychosis Research Network, Melbourne
MP HAMILTON	Oral - 2017
<b>Introducing readyforwhatsnext: a collaboration between young people, researchers and policymakers to improve the resilience of young Victorians</b>	Resilience symposium, Orygen, Melbourne
MP HAMILTON	Oral - 2017
<b>Improving the mental health of young people: the roles of economists, policymakers and capable machines</b>	National University of Ireland Galway
MP HAMILTON	Seminar - 2017
<b>Initial outline of a clinical stage and preferences based comprehensive youth mental health model of care</b>	International Conference on Youth Mental Health, Dublin
MP HAMILTON, SE HETRICK, C MIHALOPOULOS, D BAKER, V BROWNE, CHANAN A...	Oral - 2017
<b>A meaningful conversation: explaining youth mental health to intelligent machines so they can explain it back (better) to us</b>	International Conference on Youth Mental Health, Dublin
MP HAMILTON AND J GILLAM	Table top - 2017
<b>Youth mental health research in the era of intelligent machines</b>	Orygen, Melbourne
J GILLAM AND MP HAMILTON	Seminar - 2017
<b>Towards a theory of everything youth mental health: using simulation models to synthesise our synthesis</b>	Orygen, Melbourne
MP HAMILTON	Seminar - 2016
<b>Youth mental health simulation environment: project update</b>	Deakin University, Melbourne
MP HAMILTON	Professional development - 2016

## Youth mental health simulation environment: initial steps

MP HAMILTON

Deakin University, Melbourne

Professional development - 2015

## How to use health economics to improve the impact of your research

MP HAMILTON

Orygen, Melbourne

Seminar - 2015

## Value for money in treating psoriasis? a systematic review of full economic evaluations of psoriasis therapies

MP HAMILTON, D NTAIS, CEM GRIFFITHS AND LM DAVIES

International Congress of Psoriasis,  
London

Poster - 2014

## An applied example of a programme grant team developing an economic decision model

MP HAMILTON

University of Manchester

Seminar - 2014

# Grants

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## An integrated response to suicide risk among secondary schools: A regionally-based randomised trial.

ASSOCIATE INVESTIGATOR.

NHMRC Partnership GNT1153051 -  
A\$687355

2017

## readyforwhatsnext: a computer simulation model to identify optimal strategies for developing the resilience of young Victorians.

PRINCIPAL INVESTIGATOR

VicHealth Innovation Research  
Grant - A\$200,000

2017

## ENTOURAGE: An interactive e-mentoring program to assist young men overcome social anxiety

CO-INVESTIGATOR

Movember Foundation - A\$200,000

2017

## Describing assessed need, service response and outcomes of young people seeking help for mental health problems in Gippsland

CO-INVESTIGATOR

Gippsland Primary Health Network -  
A\$59,000

2017

# Teaching

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## Understanding and applying health economic tools and techniques

COURSE DIRECTOR, LEADING EDGE GROUP

Online

2015-Present

## Health economic evaluation lectures, epidemiology module, Masters of Clinical Rheumatology

GUEST LECTURER, UNIVERSITY OF MANCHESTER

Manchester, UK

2015

## Health economic evaluation module, Masters of Public Health

ASSESSOR, UNIVERSITY OF MANCHESTER

Manchester, UK

2014

## Health economics: evidence, outcomes and efficiency

PRESENTER AND FACILITATOR, LEADING EDGE GROUP

Toronto, Canada

June 2014

## Using health economic evidence to enhance hospital pharmacy outcomes

PRESENTER AND FACILITATOR, PFIZER

Dublin, Ireland

May 2014

## Become your own hero - decision making for better health, work and life

COURSE DIRECTOR, PRESENTER AND FACILITATOR, TRUST FOR THE AMERICAS

Six Eastern Caribbean Countries

2009

## Social studies

HIGH SCHOOL TEACHER, FUNDACION ROSE

Chimaltenango, Guatemala

2008