Jessica Trimmer, PhD, MS, MPH is a health services researcher with interests in patient safety, dementia, long-term care, and variations in health care delivery and outcomes. Her doctoral dissertation examined the quality of end-of-life care for nursing home residents with dementia and the impact of nursing home patient safety culture on end-of-life care outcomes.

Jessica received her doctoral training in health services research and policy at the University of Rochester. She holds an MPH with a specialization in population health analytics from the University of North Dakota, an MS in statistics from The University of Iowa, and a BA in statistics from the University of Minnesota.

As a postdoctoral fellow at the University of Maryland School of Social Work, Jessica is overseeing a research program funded by the National Institute of Health and the National Institute on Aging to enhance care for older adults with dementia in long-term care communities. In addition, she collaborates with Dr. John Cagle on several interdisciplinary research projects regarding hospice care, caregiving, and advance care planning communication. These experiences are highly complementary to Jessica’s prior work as a health services researcher and provide her with additional training in intervention research for nursing home residents with dementia.

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Description automatically generated with medium confidence**National Institute on Aging # 1K99AG076876**

**IRB Protocol # HP-00099160**

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|  |  |
| --- | --- |
| **Why Project GLORY?** | **We need your help!** |
| * Project GLORY will assess what makes a “Good Life” for residents with dementia, their families, and the nursing home staff providing their care, and inform policy in the design of evidence-based initiatives to improve care of residents with dementia. | * Project GLORY would greatly benefit from your input to enhance care for residents with dementia. * We will contact you to ask if you are interested in participating in the research. * Your participation is voluntary. |
| **How does Project GLORY work?** | **What are the benefits of participating?** |
| * You will participate in one 30-90-minute phone interview with Project GLORY research staff. * Information gathered during the interviews will be used to enhance quality of life for residents with dementia in long-term care. | * Enhance care of residents with dementia * Promote high quality of life among family members and nursing staff * Your nursing home community will receive $150 to purchase activity supplies for residents with dementia |
| **Who is conducting Project GLORY?** | **What are the risks of participating?** |
| * Project GLORY is being conducted by Dr. Jessica Trimmer at the University of Maryland, Baltimore. * Project GLORY is funded by the National Institute on Aging. | * Risks are minimal – no more than a normal interaction with nursing home staff. * All responses collected in this study will be confidential – findings will only be reported using aggregated data that cannot be traced to an individual respondent or community. |
| **Who do I contact?** | **THANK YOU!** |
| Dr. Jessica Trimmer  [Jessica.trimmer@ssw.umaryland.edu](mailto:Jessica.trimmer@ssw.umaryland.edu)  443.750.2934 | YOUR VOICE MATTERS! |

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**Jessica Trimmer (Orth), PhD, MS, MPH**

*Postdoctoral Fellow*

University of Maryland School of Social Work

525 West Redwood Street

Baltimore, MD 21201

Work Email: [jessica.trimmer@ssw.umaryland.edu](mailto:jessica.trimmer@ssw.umaryland.edu)

Phone: 443.750.2934

**Education**

2012 – BA (Statistics), University of Minnesota Morris, with high distinction; Minors: Mathematics, Music

2014 – MS (Statistics), The University of Iowa; Creative Component: *Assessing the Use of Sound in*

*Graphical Data Analysis*

2016 – MPH (Population Health Analytics), University of North Dakota; Scholarly Project: *Pruning back*

*mortality where you live, one tree at a time*

2020 – PhD (Health Services Research and Policy), University of Rochester; Dissertation: *Quality of End-of-*

*Life Care Among Nursing Home Residents with Alzheimer’s Disease and Related Dementia: Impact*

*of Patient Safety Culture and State Regulations*

**Research Interests**

Patient care experience Variations in health care delivery and access Patient safety

Dementia Behavioral and mental health Dynamic graphics

Long-term care Health care transitions Health care outcomes

Data visualization Embedded pragmatic clinical trials Health care policy

**Bibliography**

Published articles:

**Orth J,** Flowers D, Betz G, Cagle JG. (2023) A systematic review of specialty dementia care units in long-term care settings. *International Journal of Geriatric Psychiatry*.

**Orth, J**., Cagle, JG. (2021). Nursing Home Alzheimer’s Special Care Units: Geographic Location Matters. *Journal of the American Medical Directors Association*.

Simning, A., **Orth, J.**, Temkin-Greener, H., Li, Y., Simons, KV., Conwell, Y. (2021). Skilled nursing facility-to-home trajectories for older adults with mental illness or dementia. *The American Journal of Geriatric Psychiatry*.

**Orth, J.,** Li, Y., Simning, A., Temkin-Greener, H. (2020). Severe Behavioral Health Manifestations in Nursing Homes: Associations with Service Availability? *Journal of the American Geriatrics Society*.

**Orth, J.**, Li, Y., Simning, A., Zimmerman, S., Temkin-Greener, H. (2020). End-of-Life Care among Nursing Home Residents with Dementia Varies by Nursing Home and Market Characteristics*. Journal of the American Medical Directors Association*.

**Orth, J.**, Li, Y., Simning, A., Zimmerman, S., Temkin-Greener, H. (2020). Nursing Home Residents with Dementia: Association Between Place of Death and Patient Safety Culture. *The Gerontologist.*

Simning, A., **Orth, J.**, Temkin-Greener, H., Li, Y. (2020). Patients discharged from higher quality skilled nursing facilities spend more days at home*.* *Health Services Research.*

Simning, A., **Orth, J.**, Wang, J., Caprio, TV, Li, Y., Temkin-Greener, H. (2020). Skilled nursing facility patients discharged to home health agency services spend more days at home. *Journal of the American Geriatric Society*.

Simning, A., **Orth, J**., Caprio, TV, Li, Y., Wang, J., Temkin-Greener, H. (2020). Receipt of Timely Primary Care Services Following Post-Acute Skilled Nursing Facility Care. *Journal of the American Medical Directors Association.*

Temkin-Greener, H., **Orth, J.**, Conwell, Y., Li, Y. (2020). Suicidal Ideation in US Nursing Homes: Association with Individual and Facility Factors. The *American Journal of Geriatric Psychiatry,* pii: S1064-7481(19)30591-3.

**Orth, J.**, Li, Y., Simning, A., Temkin-Greener, H. (2019). Providing Behavioral Health Services in Nursing Homes is Difficult: Findings from a National Survey. *Journal of the American Geriatrics Society,* 67(8):1713-1717.

**Orth, J.M.**, (2019). Drivers of Community Attachment, An Interactive Analysis. *Computational Statistics,* 34(4):1591-1611.

Sungur, E.A., **Orth, J.M.** (2017). A note on dependence modeling for Bernoulli variables. *Communications in Statistics: Theory and Methods,* 46:16, 8217-8229.

Sungur, E.A., **Orth, J.M.** (2014). Understanding directional dependence through angular correlation. *Communications in Statistics: Theory and Methods,* 43:19, 4143-4155.

Sungur, E.A., **Orth, J.M.** (2012). On modeling directional dependence by using copulas. *Model Assisted Statistics and Applications,* 7:4, 305-313.

Book Chapters (revision):

**Orth, J**., O’Kelly Phillips, E., Unroe, K. What Models Exist for Delivering Palliative Care and Hospice in Nursing Homes? In: *Evidence-Based Practice of Palliative Medicine, 2nd edition*.

Conference Proceedings:

**Orth, J.M.**, Cowles, K. (2014). Assessing the use of sound in graphical data analysis. *Proceedings of the 2014 Joint Statistical Meeting of the American Statistical Association.*

**Orth, J.M.** (2013). Dynamic Graphics: An interactive analysis of what attaches people to their communities. *Proceedings of the 2013 Joint Statistical Meeting of the American Statistical Association*.

**Scholarly Activity**

Peer reviews:

2022 – BMC Geriatrics, Journal of Pain and Symptom Management

2021 – Journal of the American Medical Directors Association, Journal of Applied Gerontology, PLOS ONE

2020 – Journal of Gerontological Social Work

2019 – Health Services Research, Journal of the American Medical Directors Association

2014 – Computational Statistics

Book chapters:

2021 – **Orth, J.**, O’Kelly Phillips, E., Unroe, K. “What Models Exist for Delivering Palliative Care and Hospice in Nursing Homes?”

Grants:

2021 – National Institutes of Health (K99/R00); *Promoting the “Good Life” among Nursing Home Residents with Alzheimer’s Disease and Related Dementias: The Role of Special Care Units.* [Funded: 08.01.2022-07.31.2024]

Grant applications:

2019 – Agency for Healthcare Quality and Research Health Services Research Dissertation Program (R36) Grant (PA-18-765); *Quality of End-of-Life Care Among Nursing Home Residents with Alzheimer’s Disease and Related Dementia: Impact of Patient Safety Culture and State Regulations* [reviewed but not funded]

Peer-Reviewed Conference Presentations:

**Orth, J.**, Cagle, JG, Geographic Variation in U.S. Nursing Homes with Alzheimer’s Special Care Units: Associations with Neighborhood Socioeconomic Deprivation and Location. Accepted for presentation at the 2021 AcademyHealth Annual Research Meeting.

Simning, A., **Orth, J.**, Temkin-Greener, H., Li, Y., Simons, KV., Conwell, Y. Older adults with mental illness or dementia struggle with the skilled nursing facility-to-home transition. American Association for Geriatric Psychiatry. 2021. Virtual Annual Meeting. Poster.

**Orth, J.**, Li, Y., Simning, A., Zimmerman, S., Temkin-Greener, H. Nursing Home Residents with Dementia Experience Better End-of-Life Care and Outcomes in Nursing Homes with Alzheimer’s Special Care Units. Accepted for oral presentation at the 2020 AcademyHealth Annual Research Meeting in Boston, MA. In-person meeting cancelled due to COVID-19; virtual presentation.

**Orth, J.**, Li, Y., Simning. A., Temkin-Greener, H. Aggressive Behaviors, Suicidal Ideation, and Depression in US Nursing Homes: Association with the Availability of Behavioral Health Services. Accepted for poster presentation at the 2020 AcademyHealth Annual Research Meeting in Boston, MA. In-person meeting cancelled due to COVID-19; virtual presentation.

Temkin-Greener, H., **Orth, J.**, Conwell, Y., Li, Y. Suicidal Ideation in US Nursing Homes: Association with Individual and Facility Factors. Accepted for presentation at the 2020 AcademyHealth Annual Research Meeting in Boston, MA. In-person meeting cancelled due to COVID-19.

Simning, A., **Orth, J.**, Wang, J., Caprio, TV., Li, Y., Temkin-Greener, H. Home health services following a skilled nursing facility discharge: Impact on home time, readmissions, and mortality. Selected for Oral Paper Session at the 2020 American Geriatrics Society Annual Meeting in Long Beach CA. In-person meeting cancelled due to COVID-19.

Professional meetings attended:

Summer 2021 – AcademyHealth Annual Research Meeting; Virtual due to COVID-19

Summer 2020 – AcademyHealth Annual Research Meeting; Virtual due to COVID-19

June 2019 – AcademyHealth Annual Research Meeting; Washington, D.C.

May 2017 – Technical Infrastructure Meeting: Geriatrics & Extended Care Data & Analysis Center; Rochester, NY

October 2015 – First Annual Twin Cities American Statistical Association Fall Research Conference; Rochester, MN

June 2015 – AcademyHealth Annual Research Meeting and Public Health Systems Research Interest Group Meeting; Minneapolis, MN

August 2014 – Joint Statistical Meetings of the American Statistical Association; Boston, MA

November 2013 – Iowa Chapter Meeting of the American Statistical Association; Ames, IA

August 2013 – Joint Statistical Meetings of the American Statistical Association; Montreal, Canada

August 2012 – Joint Statistical Meetings of the American Statistical Association; San Diego, CA

August 2012 – International Student Research Conference in conjunction with the annual meeting of the American Siberian Education Foundation (ASEF); St. Paul, MN

Presentations:

Summer 2021 – AcademyHealth Annual Research Meeting; Geographic Variation in U.S. Nursing Homes with Alzheimer’s Special Care Units: Associations with Neighborhood Socioeconomic Deprivation and Location (poster presentation)

Summer 2020 – AcademyHealth Annual Research Meeting; *Nursing Home Residents with Dementia Experience Better End-of-Life Care and Outcomes in Nursing Homes with Alzheimer’s Special Care Units* (oral presentation)

June 2019 – AcademyHealth Annual Research Meeting; *Providing Behavioral Health Services in US Nursing Homes: Findings from a National Survey* (poster presentation), *Home Time Following Nursing Home Discharge: Does Nursing Home Quality Matter?* (poster presentation)

March 2016 – University of North Dakota Graduate Scholarly Forum; *To Expand or Not to Expand? Implications of Medicaid Expansion on State Economies under the Affordable Care Act* (oral presentation)

December 2015 – North Dakota Department of Health Infectious Disease Conference; *Analysis of Death Data to Identify Deaths Associated with Mandatory Reportable Conditions* (Invited Speaker)

October 2015 – University of North Dakota MPH Program; *A Journey Through the Data Deluge* (Invited Speaker)

June 2015 – Interest Group Meeting of the AcademyHealth Public Health Systems Research IG Meeting; *Analyzing the Spread of Influenza through Five U.S. Airports: A System Dynamics Approach* (selected poster presentation)

March 2015 – University of North Dakota Graduate Scholarly Forum; *Analyzing the Spread of Influenza through U.S. Airlines: A System Dynamics Approach* (oral presentation)

August 2014 – Joint Statistical Meetings of the American Statistical Association; *Assessing the Use of Sound in Graphical Data Analysis* (contributed paper, oral presentation)

March 2014 – University of Minnesota Morris Statistics Discipline Seminar; *User Perceptions of Sound in Simple Linear Regression Diagnostics* (Invited Speaker)

November 2013 – Iowa Chapter Meeting of the American Statistical Association; *Dynamic Graphics: An Interactive Analysis of what Attaches People to their Communities* (poster presentation)

October 2013 – The University of Iowa Computing in Statistics course; *Dynamic and Interactive Visualizations in R;* (Invited Speaker)

August 2013 – Joint Statistical Meetings of the American Statistical Association; *Dynamic Graphics: An Interactive Analysis of what Attaches People to their Communities* (poster presentation)

June 2013 – The University of Iowa Summer Institute for Training in Biostatistics; *Dynamic and Interactive Visualizations in R* (Invited Speaker)

August 2012 - International Student Research Conference in conjunction with the annual meeting of the American Siberian Education Foundation (ASEF); *Understanding Directional Dependence through Angular Correlation* (oral presentation)

April 2012 – University of Minnesota Morris Undergraduate Research Symposium; *Understanding Directional Dependence through Angular Correlation* (oral presentation)

Manuscripts and projects:

**Orth, J.M.** (2011). Using R to Create Interactive Graphics and Displays through the *googleVis* Package. Document prepared for use in Applied Multivariate Statistical Analysis course at the University of Minnesota Morris

**Orth, J.M.** (2011). R Statistical Computing Supplement for *Applied Nonparametric Statistics* by Peter Sprent and Nigel C. Smeeton.

**Honors and Awards**

2015 Public Health Systems Research Student Scholarship from AcademyHealth

2014 – 2015 TyRamond MedFund Award Scholarship, University of North Dakota

2012 Gertrude M. Cox Scholarship from the American Statistical Association Caucus for Women in Statistics and the ASA Committee on Women in Statistics

2012 Nominated to be Scholar of the College

2012 Selected to perform Rachmaninoff’s *Prelude in C Sharp Minor, Op. 3. No. 2* in the University of Minnesota Morris Music Discipline’s Honors Recital

2009 – 2012 Dean’s List

2009 – 2012 Chancellor’s Scholarship

2009 Clyde Johnson Music Scholarship

2009 Randall J. Kopitzke Scholarship

**Professional Memberships**

2016 – 2022: University of Rochester Student Chapter of AcademyHealth

2015 – 2022: AcademyHealth

2014 – 2016: North Dakota Public Health Association

2014 – 2016: University of North Dakota Student Public Health Association

2012 – 2022: American Statistical Association

2012 – 2022: The Honor Society of Phi Kappa Phi

**Employment**

**University of Maryland – Baltimore, NIH K99 Pathway to Independence Award Recipient**

Postdoctoral Research Fellow | 2022 – present

Principal Investigator

Grant title: ‘Promoting the “Good Life” among nursing home residents with Alzheimer’s disease and related dementias: The role of special care units’

**University of Maryland – Baltimore, School of Social Work**

Postdoctoral Research Fellow | 2020 – present

Under the direction of Dr. John Cagle

Areas of research: nursing home residents with cognitive impairment, hospice care, caregiving, advance care planning communication

**University of Rochester, Department of Public Health Sciences**

Graduate Research Assistant | 2018 – 2020

Under the direction of Dr. Yue Li, Dr. Helena Temkin-Greener, and Dr. Adam Simning

Areas of research: nursing homes, behavioral health disorders, mental illness, care transitions

**University of Rochester, Department of Public Health Sciences**

Teaching Assistant – Introduction to the US Health Care System | 2018

Under the direction of Dr. Theodore Brown

Supported students in the development of a thesis-driven term paper, graded exams and term papers, held weekly discussion sections on course material

**University of Rochester, Department of Public Health Sciences**

Study Coordinator | 2017

Under the direction of Dr. Yue Li and Dr. Helena Temkin-Greener

*Survey of Behavioral Health Services in US Nursing Homes* – developed survey and submitted for IRB approval

**University of North Dakota School of Medicine and Health Sciences**

Graduate Research Assistant | 2014-2016

Under the direction of Dr. Raymond Goldsteen

Developed a comprehensive database for all US counties on various measures of demographics, economics, education, health behaviors, health infrastructure, etc. Analyzed the data in R using various statistical techniques to explore differences in rural and urban health.

**North Dakota Department of Health Division of Disease Control**

Occupational Health Epidemiologist Intern | 2014 – 2015 (summers)

Under the direction of Tracy Miller, PhD, MPH (State Epidemiologist) and Shawn McBride (Field Epidemiologist)

Performed data management and statistical analysis in R of health insurance claims data and created a report of findings

Created a dynamic report, *Analysis of Death Data to Identify Deaths Associated with Mandatory Reportable Conditions*, using R Markdown and created R code to automatically analyze weekly data sets of reportable infectious diseases

**Apress**

Technical Reviewer | 2013 – 2014

Book review; tested all R code and ensured proper functioning of the code

**The University of Iowa, Department of Statistics and Actuarial Science**

Teaching Assistant – Biostatistics | 2012 – 2014

Under the direction of Dr. Erning Li, Dr. Joyee Ghosh, and Dr. Ralph Russo

Graded homework assignments, held weekly office hours, led four weekly discussion sections on course material

**University of Minnesota Morris Data Services Center, Center for Small Towns**

Statistical Consultant | 2011 – 2012

Under the direction of Dr. Engin Sungur

Worked on various projects related with Minnesota county level data and developed dynamic and interactive graphical displays

**University of Minnesota Morris, Department of Statistics**

Teaching Assistant | 2010 – 2012

Under the direction of Dr. Engin Sungur

Graded homework assignments

**University of Minnesota Morris, UMM NSF LSAMP North Star Stem Alliance Program**

Peer Tutor | 2010 – 2011

Under the direction of Dr. Engin Sungur

Held weekly office hours for tutoring in math and statistics courses

**University of Minnesota Morris, Department of Statistics**

Student Note Taker – Statistical Methods, Multivariate Statistical Analysis | 2009 – 2010

Under the direction of Dr. Engin Sungur

Attended lectures and took class notes for students with disabilities

**Skills, Service, Experience, and Community Involvement**

Skills:

Statistical software: R, SAS, STATA

Multivariate statistical analysis and interpretation

Survey design and analysis

Management and analysis of national claims and assessment datasets: BlueCross and BlueShield insurance claims, Center for Medicare and Medicaid Services Medicare Provider Analysis and Review File, Master Beneficiary Summary File, Medicare Outpatient Revenue File, Long-Term Care Minimum Data Set

Microsoft office products

Service:

2016 – 2017 Vice President: University of Rochester student chapter of AcademyHealth

2011 – 2012 University of Minnesota Morris Statistics Discipline Student Representative

Experience:

2019 Teaching Assistant – University of Rochester, Department of Public Health Sciences; Social and Behavioral Medicine; under the direction of Dr. Deborah Ossip

2013 HCUP Data Use Agreement Training

February 2012 Piano recital; performed Rachmaninoff’s *Prelude in C Sharp Minor, Op. 3. No. 2* in a Mixed Student Recital at the University of Minnesota Morris

November 2011 Piano recital; performed Brahms’ *Rhapsody in G Minor, Op. 79, No. 2* in a Mixed Student Recital at the University of Minnesota Morris

April 2011 Piano recital; performed the first movement of Beethoven’s *Opus 26* in a Mixed Student Recital at the University of Minnesota Morris

2010 Participant – University of Wisconsin Madison Summer Institute for Training in Biostatistics

Community involvement:

September 2014 Graniteman Half Marathon; St. Cloud, MN

June 2014 Run for Your Buns 5K; Grand Forks, ND; money raised supported colonoscopy screening for uninsured individuals

May 2014 Med City Half Marathon; Rochester, MN

**Relevant Coursework**

**University of Minnesota Morris, Department of Statistics (BA):**

Probability and Stochastic Processes

Statistical Methods

Mathematical Statistics

Data Analysis

Multivariate Statistical Analysis

Applied Nonparametric Statistics

Design and Analysis of Experiments

Directed Study – Directional Dependence

Senior Seminar

Calculus I-III

Linear Algebra

**The University of Iowa, Department of Statistics and Actuarial Science (MS):**

Statistical Inference I-II

Computing in Statistics

Applied Statistics I-II

Mathematical Methods for Statistics

Probability and Stochastic Processes

Applied Generalized Regression

Applied Time Series Analysis

ALPHA Seminar

Readings in Statistics

**University of North Dakota, School of Medicine and Health Sciences (MPH):**

Leading and Managing Public Health Systems

Health Care Systems

Social and Behavioral Sciences in Public Health

Population Health Research Methods

Health Economics

Biostatistics II

Introduction to Structural Equation Modeling

System Dynamics I

Epidemiology

Political and Public Policy Analysis

Environmental Health

Practicum

MPH Seminar

Scholarly Project

**University of Rochester, Department of Public Health Sciences (PhD):**

Introduction to Health Services Research

Introduction to US Health Care System

Advanced Methods in Health Services Research

Advanced Multivariate Analysis

Ethics and Professional Integrity

Health Economics I-II

Measurement and Evaluation in Research

Health Services Research Seminar

Politics and Policies in the US Health Care System

Quality of Care and Risk Adjustment

Medical Decisions and Cost Effectiveness Research

Survey Research

Psychology in Health Services Research

Science, Technology, and Health Policy