ANNUAL REPORT

Families, Students, & Schools Matter!

January 1, 2022 - June 30, 2023

Missouri Prevention Science Institute
University of Missouri
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WELCOME TO OUR REPORT

We are proud of the work our team does each and every day. This report features our amazing success over the past year and a half.

FROM OUR DIRECTORS AND VISIONARIES

We are honored to lead the Missouri Prevention Science Institute (MPSI). Founded 16 years ago as the Missouri Prevention Center, MPSI became a campus-level University of Missouri research center in 2019. Our transformation into an Institute has ushered in an era of remarkable growth and productivity these past four years. Over 20 faculty members from eight disciplines now contribute to our mission as well as 80 total research and clinical staff members and graduate students. This annual report summarizes our achievements during the past 18 months.

We are most excited to report that we now have compelling evidence that our school and community mental health models that we have developed and implemented over the past decade are improving the population health of youth in our county. In contrast to national escalating rates of mental health concerns documented by the Centers for Disease Control and others, youth in our county had declining rates of mental health concerns over the past several years. Moreover, youth in our county had lower scores on six indicators of youth mental health concerns compared to similar youth in comparable schools in other parts of Missouri; on some metrics, including internalizing problems, youth in our county had half the risk of severe concerns.

We are proud of our groups’ conscientious stewardship of public and university funding that supports our work. We understand the value of resources that are invested in us and the critical importance of using it to meet the objectives we have set. These include delivering high quality services and supports to youth, families, and educators that we work with as well as completing high quality scientific research to answer important questions. In addition to the evidence presented previously about the impact of our mental health approach, other indicators of our impact include the large number of publications and citations and the success of our completed grants.

We are also very pleased to report that MPSI remains a sound investment. Since our inception, for every university dollar invested in our Center/Institute, we have generated $45 in grant awards.

We are excited to welcome new members onto our team this year. We look forward to continuing to grow our interdisciplinary connections. In the coming years, we will persist in our efforts to find solutions to large social problems through rigorous and engaged scholarship, teaching, and service. We are grateful for the support and resources we have received to achieve these goals.

$ 18.6 MIL IN NEW GRANT AWARDS FROM JANUARY 2020 TO END OF JUNE 2023
WHO WE ARE

MPSI INTERDISCIPLINARY FACULTY

Statistics, Measurement, & Evaluation

Wes Bonifay  Matt Easter  Francis Huang  Wolfgang Wiedermann

School Psychology

Keith Herman  Shannon Holmes  Sarah Owens  Wendy Reinke  Rachel Santiago  Tyler Smith

Counseling Psychology

Loren Bauerband  Chris Slaten

Psychological Sciences

Kristin Hawley

We are a group of interdisciplinary research scholars, research assistants, students, teachers, postdoctoral fellows, graduate assistants, and staff who work together to solve BIG problems in the communities we serve. We come together under the umbrella of prevention science to advance research and to improve communities.

Much of our work is in the school setting. We work with teachers, students, families, and the greater community to help each student succeed. We believe in working to prevent maladaptive behaviors and mental health issues before they become problematic.

www moprevention org
WHAT IS PREVENTION SCIENCE?

Prevention Science is rooted in a public health approach to solving world problems. This framework ensures prevention is more than a WORD. It is a strategic approach to improving the human condition.

OUR GOALS INCLUDE REDUCING THE PREVALENCE & BURDEN OF YOUTH MENTAL HEALTH PROBLEMS

Social Work
- Kelly Canada
- Andy Frey
- Clark Peters
- Virginia Ramseyer Winter
- Aaron Thompson

Special Education
- Melissa Stormont

Educational Leadership & Policy Analysis
- James Sebastian

Human Development & Family Science
- Antoinette Landor
WHAT WE DO
PROJECTS AND PEOPLE

Mental health matters to us. Much of our research and services focus on helping prevent mental health problems in youth. To do this, we help caregivers and educators create more effective and nurturing spaces for youth to thrive. For this to happen, we also need to support the well-being of these adults so that they can be at their best. Our projects take different formats and have different goals. But all strive to make the world a little better.

In the next few pages, explore a sample of the projects and research we have worked on over the last year and a half. Also meet a few new faces and some of the research staff who help us meet our objectives and goals. It takes a great team to juggle so many projects. Together we make the world better. And we think we are succeeding.

A child’s mental health is just as important as their physical health & deserves the same quality of support. ~Kate Middleton
CENTERS AND PROJECTS - 2022-23

Centers
National Center for Rural School Mental Health -- Wendy Reinke, PI
FACE: Family Access Center for Excellence -- Aaron Thompson, Wendy Reinke, Keith Heman, Kristin Hawley, PIs
Center for Body Image Research & Policy -- Virginia Ramseyer Winter & Antoinette Landor, Directors

Classroom Management
CCU: Classroom Check-Up - Efficacy Trial -- Wendy Reinke, PI
DISCO: High School Teacher Classroom Management Training -- Keith Herman, PI
KCU: Kindergarten Check-Up -Melissa Stormont, PI
MISC: Motivational Interviewing Skills for Coaches- Andy Frey, PI
Pilot & Evaluation of a Trauma-Informed Adaptation of the Classroom Check-Up, Rachel Santiago, PI

Mental Health
e-IMPACTS: Evidence-Informed Mental Health Prevention, Assessment, Collaboration, & Treatment in Middle Schools-- Keith Herman, PI
Look Around Boone Youth Participatory Action Research - Dávid Aguayo, PI

Educational Leadership & School Climate
SCSL: Safe & Civil Schools Principal Training - Keith Herman, PI
START: Principal & School Climate Program - Keith Herman, PI
Building Capacity for Threat Assessment & Response in Rural MO Schools - Keith Herman, PI

Equity & Culturally Responsive Interventions
ECP: Exploring Cultural Practices - Keith Herman, PI
CARES: The CARES Assessment System - Keith Herman, PI

Tier 2 Youth Interventions
SMARTS: Self Monitoring Training Program for Middle School Students -- Aaron Thompson, PI

Parent Engagement
STEP: Supporting Teachers in Engaging Parents, Tyler Smith, PI
The Effects of Family Engagement on STEM Learning & Motivation: A Systemic Review & Meta-Analysis, Tyler Smith, PI

Implementation Fidelity
UFIT: Development & Pilot of the Universal Fidelity & Implementation Tools, Shannnon Holmes, PI

Methodology
Project MIDAS: Development of a Multi-Informant Decisional Assessment System - Wes Bonifay, PI

Training Grants
The University of Missouri’s INterdisciplinary Systems Training in EBD Program Supports (InSTEPS) - Wendy Reinke, PI
Mental Health INterdisciplinary Training (MINT) - Wendy Reinke, PI
FACE was established with funding by the Boone County Children’s Services Fund in 2015. MPSI has had continuous funding for over 8 years. We offer both School- and Community-Based Services.

www.faceofboonecounty.org/

**FAMILY ACCESS CENTER OF EXCELLENCE**

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<thead>
<tr>
<th>Community-Based Services</th>
<th>School-Based Services</th>
</tr>
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<tbody>
<tr>
<td>421 of individuals that completed a suicide risk assessment developed a safety plan</td>
<td>26,398 students completed a social-emotional behavioral screener</td>
</tr>
<tr>
<td>652 of individuals decreased severity of top problems</td>
<td>8,521 students received a universal intervention at school</td>
</tr>
<tr>
<td></td>
<td>409 students received individualized or targeted social behavioral supports at school</td>
</tr>
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</table>

Funded by the Boone County Children’s Services Fund
Currently under the umbrella of FACE, the Boone County Schools Mental Health Coalition has been providing mental health supports in every school in Boone County since September 2014. In a recent study, MPSI researchers found that students in Boone County were reporting much lower mental health risks over time compared to youth across Missouri and the U.S.

National Trends vs. Boone County Trends

National trends indicate youth mental health concerns have been rising exponentially for the past decade, with the worsening trends accelerating during the pandemic. Boone County trends are a sharp contrast.

Centers for Disease Control (CDC) biannual summary of youth well-being found 57% of high school girls across the country reported persistent sadness or hopelessness. This was up from 36% in 2011.

Both boys and girls in Boone County reported sadness or hopelessness from 2017-2021; only 7% of girls reported these feelings in 2021 down from 12% in 2017.

Missouri Trends vs. Boone County Trends

Direct comparisons between Boone County rural schools (n=3,905) versus youth in other Missouri rural schools (n=3,631) show the same findings. The schools and student demographics between the two groups were nearly identical.

Fall 2022, Boone County youth reported significantly lower scores on all six indicators of mental health risk on the Early Identification System (EIS) than the comparison Missouri youth. When youth with severe scores on these indicators were examined, Boone County youth fared far better than peers on every EIS scale.

Boone County rural school boys and girls were 1/3 and 1/2 as likely to report problems with sadness or hopelessness, respectively than their rural Missouri counterparts.
THE NATIONAL CENTER FOR RURAL SCHOOL MENTAL HEALTH

The Rural Center is a 5 year, $10 million dollar federal Center grant. During the past 18 months, we began a randomized controlled trial with 100 rural schools across Missouri, Montana, and Virginia to determine the effectiveness of our school mental health model.

Our website www.ruralsmh.com offers valuable freely available resources to educators and schools.

OUR PURPOSE IS SIMPLE: IDENTIFY, PREVENT, & INTERVENE

Nearly 20 percent of school-age children experience serious mental health issues yet few receive services, a situation exacerbated in rural settings. Mental health services in rural communities are scarce due to geographic isolation and few providers. Yet, the need is immense. Our comprehensive model provides resources, toolkits, and best practices to identify, prevent, and intervene on rural student mental health issues.
Wendy Reinke created the CCU for her dissertation project. The CCU is a consultation model to support teachers in using effective classroom management practices. The website can be freely used by anyone. Dr. Reinke's current CCU project is a 5-year efficacy project funded by the U.S. Department of Education, Institute of Education Sciences. During the 2022-23 school year, data collection was the research focus. In the past year, we were in 16 schools and 48 classrooms with 708 participants.
PROJECTS OF INTEREST

**COSME:** Innovative, Translational, & User-friendly Tools for Comprehensive Statistical Model Evaluation

- 3 major publications written and ready for press.
- 9 presentations in the U.S., Canada, and Italy on statistical model evaluation.
- Software development continues, with great progress made during the last year.

**ECP:** Exploring Cultural Practices/CARES: The CARES Assessment System

- Focus of the year was on qualitative exploration to finalize indicators that are culturally responsive.
- Focus groups & interviews with 13 parents, 20 teachers, and 13 students.
- Identified 99 items that have been collectively analyzed to become part of student measure.

**YPAR:** Look Around Boone Youth Participatory Action Research

- As part of The National Center on Rural School Mental Health, we recruited, trained and worked with high school youth as researchers.
- Interviewed 20 high school students.
- 10 high school youth researchers worked with MPSI and Dr. Aguayo.

**SCSL:** Safe & Civil School Principal Training Program

- SCSL has been evaluating the Safe & Civil Schools Leadership Program in Missouri since 2017.
- To date 83 schools have been recruited over 5 cohorts.
- Training, webinars, coaching sessions have allowed principals to practice what they have learned.

**Funded by:** U.S. Dept. of Education, Institute of Education Sciences

CHECK OUT OUR VIDEO

https://youtu.be/BMtXv6e9Mh
New MPSI Tiger Faculty!

In the last year and a half we have welcomed three new faculty members to Mizzou and to MPSI. Their research interests align perfectly with our goals. We are proud to call them colleagues!

Andy Frey joined the team in July 2022. Dr. Frey spent 22 years at the University of Louisville’s Kent School of Social Work before coming to Mizzou. His research focuses on preventing and treating young children (Pre-K-2) with challenging behaviors in school settings. He was recently named a Fellow of the American Academy of Social Work & Social Welfare. Dr. Frey was a Mizzou Forward hire.

Rachel Santiago joined Mizzou in August 2022 after a two year postdoctoral fellowship at the University of Wisconsin-Madison. Dr. Santiago’s research focuses on social-emotional and mental health outcomes for youth. Her work emphasizes culturally responsive practices, implementation science, and school-community partnerships.

Tyler Smith began his tenure at Mizzou as a Postdoctoral Fellow with MPSI. He transitioned to a Senior Research Associate in MPSI. With help from the Mizzou Forward program, Dr. Smith has again transitioned to an Assistant Professor in ESCP. His research interest centers around family engagement.
OUR NEW GRANTS

MPSI RESEARCHERS ARE WORKING ON NEW PROJECTS FROM NSF, DOJ, AND U.S. DEPT.

$18.6 MILLION IN NEW GRANT FUNDING
18 MONTHS

KCU: KINDERGARTEN CHECK-UP

- PI: Melissa Stormont
- $2 million over 4 years.
- Teacher participants are helping to build the intervention.
- Have conducted focus groups with parents to help focus on skills kids need to be successful transitioning to Kindergarten.

Funded by: U.S. Department of Education/Institute of Education Sciences

BUILDING CAPACITY FOR THREAT ASSESSMENT & RESPONSE IN RURAL MISSOURI SCHOOLS

- PI: Keith Herman
- ~$2 million over 3 years.
- With partner, SlateXP, we have recruited 20 rural MO schools.
- Using a technology platform, we can monitor, assess, and help schools respond to threats to self and to others.

Funded by: U.S. Department of Justice under BJA STOP Program.

THE EFFECTS OF FAMILY ENGAGEMENT ON STEM LEARNING & MOTIVATION: A SYSTEMATIC REVIEW & META ANALYSIS

- PI: Tyler Smith
- $791,850 over 3 years.
- Drs. Smith, Holmes, & Santiago have begun coding with student researchers.
- Fun Fact: We received funding for $191,850 more than we requested to help support student researchers.

Funded by: National Science Foundation, DRK-12
MINT- MENTAL HEALTH INTERDISCIPLINARY TRAINING

$5.072 million in funding from the U.S. Department of Education, Mental Health Service Professional Demonstration Grant Program.

- PI: Wendy Reinke
- 5 year project
- Interdisciplinary team includes: Keith Herman, Aaron Thompson, Andy Frey, Chris Slaten, Shannon Holmes, Tyler Smith, Rachel Santiago, and Jacqueline Smith.
- Project will place 42 Master’s students (with diverse backgrounds) into high need schools to help complete the necessary training for a degree. Upon graduation, students will enter the workforce as qualified school mental health professionals in school psychology, counseling psychology, or social work.
- We will work with 19 high need schools in Central Missouri and in the St. Louis area.
- This project will help to serve students with mental health needs that are unlikely to receive help.
NUMBERS &

JANUARY 1, 2022 - JUNE 30, 2023

# OF EMPLOYEES
81

PROJECTS
23

CITATIONS
15,408

140 UNIQUE PEER-REVIEWED JOURNAL ARTICLES

76% GRANT SUBMISSION SUCCESS RATE

A MU NEWS RELEASE ON DR. HERMAN AND TEAM’S TEACHER STRESS & JOB SATISFACTION STUDY APPEARED IN OVER 130 MEDIA STORIES.

WENDY REINKE RECEIVED THE SEC FACULTY ACHIEVEMENT AWARD IN APRIL 2023!

GRANTS 1/1/22-6/30/23 AMOUNT

| Submitted | $29,825,081 |
| New Awards | $18,576,604 |
| Expenditures | $11,979,689 |

SOURCE OF NEW AWARDS:

FEDERAL - $11,807,039 (64%)
COUNTY - $6,599,651 (35%)
OTHER - $169,914 (1%)
FACTS

HISTORICAL DATA SINCE 2009

Cumulative Grant Funding vs. University Investment

MPSI was founded in 2007 as the Missouri Prevention Center. In 2019, with support from leadership, MPC became the Missouri Prevention Science Institute. Since 2009, grant funding has increased exponentially with each investment from our departments, our colleges, and our university.

SINCE 2009, FOR EVERY $1 THAT MIZZOU HAS INVESTED, MPSI HAS BROUGHT IN $45 IN EXTERNAL GRANT AWARD DOLLARS.

80% OF ALL EXTERNAL GRANTS SINCE 2009, MPSI HAS BEEN THE PRIME Awardee.
**MPSI STAFF**

**Julia Burke, Ph.D.**
SCSL/IES/DISCO Training Coach

**Justin Harris**
Project Coordinator

**Carole Kelley, M.Ed.**
Principal Training Coach

**Marcus Petree**
Senior Research Manager

**Lou Ann Tanner Jones, Ph.D.**
Rural Center/FACE Coach

**Ben Graves**
Data Strategy & Management

**Judy Healy-Mendez**
Research Funding Director

**Sherry Labyer, Ed.D.**
Principal Training Coach

**Michelle Steen**
Business Administration Manager

**Dennis Walker, Ph.D.**
SCSL/IES/STOP Training Coach

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**RESEARCHERS & POSTDOCTORAL FELLOWS**

**Dávid Aguayo, Ph.D.**
Senior Research Associate

**Chynna McCall, Ph.D.**
Senior Research Associate

**Sonja Winter, Ph.D.**
Postdoctoral Fellow

**Christa Copeland, Ph.D.**
Postdoctoral Fellow

**Nikita McCree, Ph.D.**
Postdoctoral Fellow

**Bixi Zhang, Ph.D.**
Postdoctoral Fellow
<table>
<thead>
<tr>
<th>Name</th>
<th>Field</th>
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<tbody>
<tr>
<td>Carolyn Conway</td>
<td>School Psychology</td>
</tr>
<tr>
<td>Raisa Fountain</td>
<td>Social Work</td>
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<tr>
<td>Katherine Hernandez</td>
<td>Social Work</td>
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<tr>
<td>Mingming Huang</td>
<td>School Psychology</td>
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<tr>
<td>Yara Lima De Paulo</td>
<td>School Psychology</td>
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<td>Pravash Raut</td>
<td>School Psychology</td>
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<tr>
<td>Sindhu Venkat</td>
<td>School Psychology</td>
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<tr>
<td>Mackenzie Dallenbach</td>
<td>Social Work</td>
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<tr>
<td>Audrey Glenn</td>
<td>School Psychology</td>
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<tr>
<td>Amanda Hood</td>
<td>Social Work</td>
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<tr>
<td>Hannah (Hayoung) Kim</td>
<td>School Psychology</td>
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<tr>
<td>Annie (Chun-An) Liu</td>
<td>School Psychology</td>
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<tr>
<td>Salowa Shaoli</td>
<td>School Psychology</td>
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<tr>
<td>Tanya Weigand</td>
<td>Social Work</td>
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</table>
FACE STAFF

Adielle Ehret, MA, LP
FACE Executive Director

Samantha Bailey
Research Assistant

Devara Brock
Clinical Instructor

Jordan Chavez
Clinical Instructor

Tara Jennings
Research Assistant

Christina Jones
Clinical Instructor

Samantha Myers
Clinical Instructor

Terry Pipes
Clinical Instructor

ShaVon Wall-Taylor
Research Specialist

Jeremy Williams
Research Assistant

Shannon Williams
Clinical Instructor

FACE Family Intervention Specialists

Sandra Miller
Supervisor

Whitani Beck
Shonna Bexten
Jeris Bobo

Lorie Bousque
Melissa Detmer
Laurel Owen

Jessica Rauls
Aly Sansoucie
Megan Sapp

Leah Springer

Sarah Owens, Ph.D.
Boone County Schools Mental Health Coalition Director

Jessica Burbridge
Regional Coordinator

Chelsea Clark
Regional Coordinator

Tara Collier
Regional Coordinator

Rebecca Hart
Regional Coordinator

Nicholas Lazechko
Regional Coordinator

Denissa Niles
Regional Coordinator

Lindsay Oetker
Regional Coordinator

Kelly Off
Regional Coordinator

Kim Selders
Regional Coordinator
MPSI Scholarships

Spring of 2023, MPSI established two new scholarship opportunities. Both scholarships are $500 and open to Mizzou undergrad students, graduate students, professional students, or postdoctoral fellows.

The Erin Reynolds Community Impact Scholarship is named in honor and memory of the first FACE Director and established by her family to recognize outstanding community impact. The 2023 recipient was Rylee Park.

The Tom Dishion Prevention Scientist Scholarship is named in honor of Tom Dishion, whose work impacted MPSI’s science training and outreach. This award recognizes outstanding use of prevention science to help solve a community problem. The 2023 recipient was Wenxi Yang.
MPSI IN PIX

Hard work, hard play.
Lots of smiles and laughs along the way.
OUR MISSION

To improve the lives & well-being of children, adults, and families.