

Adam T. Hirsh, Ph.D.

Curriculum Vitae

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Indiana University, Indianapolis

Department of Psychology

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ACADEMIC APPOINTMENTS

Professor (with tenure), 2023-present

Associate Professor (with tenure), 2016-2023

Assistant Professor (tenure-track), 2010-2016

Department of Psychology

School of Science

Indiana University, Indianapolis

Indianapolis, IN

LICENSURE

Licensed Psychologist (#20042477A), 2010-present

State of Indiana

EDUCATION

Postdoctoral Fellowship, 2010

Rehabilitation Sciences Training Program

Department of Rehabilitation Medicine

University of Washington, Seattle, WA

Doctor of Philosophy, 2008

Clinical and Health Psychology (APA Accredited)

Area of Concentration: Clinical Health Psychology

University of Florida, Gainesville, FL

Internship, 2008

Clinical Psychology (APA Accredited)

VA Puget Sound Health Care System, Seattle, WA

Master of Science, 2004

Clinical and Health Psychology (APA Accredited)

University of Florida, Gainesville, FL

Bachelor of Arts, 2001

Psychology (Summa Cum Laude)

University of Central Florida, Orlando, FL

HONORS/AWARDS

Fellow, Academy of Behavioral Medicine Research, 2023

Tenured Faculty Research Excellence Award, School of Science, IUPUI, 2021

Outstanding Young Alumnus Award, University of Florida College of Public Health and Health Professions, 2018

John C. Liebeskind Early Career Scholar Award, American Pain Society, 2015

GRANT ACTIVITY

Current Grants

Equipping patients using interventions for pain and depression (EQUIPD)

Principal Investigator (Co-PI: Matthias) · NIH/NINR (R61/R33NR020845) · \$3,843,972 · 2022–2027

Virtual perspective-taking training to reduce pain treatment disparities

Principal Investigator (Co-PI: Mazurenko) · Indiana CTSI (UM1TR004402) · \$21,757 · 2023–2025

Integrating music therapy into medication-assisted outpatient opioid treatment clinics – A multi-site feasibility study

Co-Investigator · Indiana FSSA, DMHA · \$309,933 · 2025–2026

Comparing strategies to improve non-pharmacologic pain relief for adults with back pain

Co-Investigator · PCORI (grant number pending) · \$5,846,458 · 2025–2030

Music mechanisms and technologies network: Integrative models to address pain through music

Co-Investigator · NCCIH & NEA (U24AT012602) · \$2,421,333 · 2023–2028

Options for pain management using nonpharmacological strategies (OPTIONS)

Co-Investigator · VA HSR&D (SDR 21-012) · \$1,199,971 · 2022–2026

Assessing real-world evidence of the effects of opioid analgesic tapering on substance-related problems

Co-Investigator · NIDA/NIH (R01DA059026) · \$1,072,077 · 2023–2026

Predictive modeling for social needs in emergency department settings

Co-Investigator · AHRQ (R01HS028008) · \$1,967,217 · 2021–2026

Training grant on genetic aspects of alcoholism

Co-Investigator / Preceptor · NIAAA/NIH (T32AA007462) · \$2,660,541 · 2021–2026

Development of a provider-focused intervention to improve health outcomes in pediatric sickle cell disease

Co-mentor (Mentee: Siddika Mulchan) · NHLBI/NIH (K23HL175237) · \$781,700 · 2025–2029

Leveraging health systems' data to address oral health disparities

Co-mentor (Mentee: Heather Taylor) · NIDCR/NIH (K01DE033998) · \$737,646 · 2024–2029

Characterizing provider biases in physical therapy

Scientific Advisor (Mentee: Mark Vorensky) · HEAL Initiative National K12 Clinical Pain Career Development Program, NINDS/NIH (K12NS130673) · \$436,871 · 2024–2027

Evaluating the association between general chronic pain liability and clinically recognized substance use

Consultant (Mentee: Alynna Summit) · NIDA/NIH (F31DA061638) · \$97,948 · 2024–2026

Completed Grants

Music Therapy for Opioid or Stimulant Use Disorder (OSUD), Phase 2

Principal Investigator (Co-PI: Myers-Coffman) · Indiana FSSA, DMHA · \$346,157 · 2023–2024

Music Therapy for Opioid or Stimulant Use Disorder (OSUD), Phase 1

Principal Investigator (Co-PI: Burns) · Indiana FSSA, DMHA · \$103,284 · 2023–2024

Empowering Black patients with chronic pain to effectively engage in treatment decision-making

Principal Investigator · OVCR Research Support Grant Funds (RSFG) · \$34,850 · 2021–2022

Enhanced Mentoring Program with Opportunities for Ways to Excel in Research (EMPOWER)

Principal Investigator / Mentor (Mentee: Veronica Derricks) · IUPUI OVCR · \$2,000 · 2021–2022

GET PrEPD: Goal Elicitation, Treatment Prioritization, & Electronically-Practiced Discussion

Principal Investigator · Racial Justice Research Fund of Indiana (AID2396) · \$15,776 · 2020–2021

GET PrEPD for Psychiatry: Goal elicitation, treatment prioritization, & electronically-practiced discussion for psychiatric care

Principal Investigator (Co-PI: Salyers) · NIMH, NIH (R34MH118314) · \$696,275 · 2018–2023

Virtual perspective-taking to reduce race and SES disparities in pain care

Principal Investigator · NIMHD, NIH (3R01MD008931-05S1; administrative supplement) · \$100,000 · 2018–2020

Virtual perspective-taking to reduce race and SES disparities in pain care

Principal Investigator · NIMHD, NIH (R01MD008931) · \$1,839,221 · 2014–2020

Bringing pediatric pain management into the 21st century: Using learning health systems to engage patients and families in individualized pain assessment and treatment

Principal Investigator · Purdue Research Foundation (International Travel Grant) · \$830 · 2019

Race differences in the land of Lake Wobegon

Principal Investigator · Purdue Research Foundation (International Travel Grant) · \$1,115 · 2016

The influence of patient race, provider bias, and contextual ambiguity on opioid treatment decisions

Principal Investigator · American Pain Society (Future Leaders in Pain Research Grant) · \$20,000 · 2013–2014

The influence of patient race, provider racial bias, and clinical ambiguity on opioid treatment decisions

Principal Investigator · Purdue Research Foundation · \$10,000 · 2013

Provider decision-making for the management of comorbid chronic pain and depression: A novel Virtual Human technology investigation

Principal Investigator · Indiana University (Collaborative Research Grant) · \$51,675 · 2011–2012

Influence of patient sex, race, and disability diagnosis on provider decision-making for pain

Principal Investigator · Indiana University–Purdue University Indianapolis · \$10,000 · 2011–2012

Pain assessment and clinical decision making

Principal Investigator · NINDS, NIH (F31NS049675) · \$85,992 · 2004–2007

“Their pain is not our pain”: Unravelling how caregiver attention to pain and perspective taking contribute to racial disparities in child pain care

Co-Investigator · Research Foundation – Flanders (FWO) · €533,786 · 2021–2024

Erosive Tooth Wear perception among network dentists and patients

Co-Investigator · NIDCR/NIH (UG3DE030087) · \$282,510 · 2021–2022

Reducing disparities in nonpharmacological pain treatments

Co-Investigator · Regenstrief Institute · \$20,000 · 2021–2022

Impact of Race-Related Injustice Appraisals on Morbidity in Youth with Sickle Cell Disease

Co-Investigator · Racial Justice Research Fund of Indiana · \$14,943 · 2020–2021

Examination of mechanisms contributing to impact of insomnia on chronic pain risk and outcomes in pediatric patients

Co-Investigator · Indiana Clinical and Translational Sciences Institute (UL1TR002529) · \$11,366 · 2020–2022

Exploring pain management decision making among anesthesia providers

Co-Investigator / Mentor · University of Alabama at Birmingham (UAB) · \$8,100 · 2020–2021

Unravelling how perspective-taking and associated verbal and non-verbal caregiver behaviours contribute to racial disparities in child pain care

Co-Investigator · Bijzonder Onderzoeksfonds (BOF), Flemish Government · €200,000 · 2019–2023

Acceptance and Commitment Therapy for fatigue interference in metastatic breast cancer

Co-Investigator · National Cancer Institute, NIH (R01CA230542) · \$1,661,702 · 2019–2023

Communication and activation in pain to enhance relationships and treat pain with equity (COOPERATE)

Co-Investigator · VA HSR&D (IIR17-032) · \$1,100,000 · 2018–2022

Acceptance and Commitment Therapy for symptom interference in metastatic breast cancer patients

Co-Investigator · Walther Cancer Foundation · \$150,000 · 2016–2019

Development of a website tool for the evaluation of Erosive Tooth Wear perception among dentists and patients

Co-Investigator · GlaxoSmithKline (GSK Investigator-Sponsored Studies Programme) · \$250,834 · 2017–2019

Symptom priorities of African-American chronic pain patients in primary care settings

Co-Investigator · IUPUI Department of Psychology · \$10,000 · 2015–2016

Perceptions of symptom importance and interference in metastatic breast cancer patients: Preparation for intervention development

Co-Investigator · Walther Cancer Foundation · \$50,000 · 2015–2016

Pain treatment decisions: Influence of sex, race, and age

Co-Investigator · NIDCR, NIH (R01DE013208) · \$1,046,327 · 2009–2012

Enhancement of clinical health psychology professions via training in non self-report methods of data collection

Co-Investigator · HRSA, U.S. Department of Health and Human Services (D76HP20905) · \$56,003 · 2010–2011

A pilot intervention to reduce gender identity bias in primary care decision-making

Consultant · Ambulatory Research Consortium, UMass Chan Medical School · \$25,000 · 2023–2024

On the pains of social standing: Understanding the role of patient social status on nurses' pain assessment and management practices

Consultant · Fundação para a Ciência e Tecnologia (FCT–Portugal) (PTDC/MHC-PSC/2041/2014) · €145,704 · 2016–2019

Pain treatment decisions: Influence of sex, race, and age

Consultant · NIDCR, NIH (R56DE013208) · \$323,454 · 2008–2009

Developing an intervention to improve the delivery of targeted health messages about HIV prevention to Black Americans

Primary Mentor (Mentee: Veronica Derricks) · IU School of Medicine, PLUS Program · \$68,080 · 2023–2024

Assessments of opioid-related risk in diverse patients with chronic pain: Race and gender disparities

Primary Mentor (Mentee: Alexis Grant) · APA Division 38 (Graduate Student Research Grant) · \$2,000 · 2023–2024

Race and gender disparities in provider judgements of opioid-related risk in chronic pain

Primary Mentor (Mentee: Alexis Grant) · Society for Addiction Psychology (APA) · \$1,000 · 2022–2023

Investigating how institutional and provider racism contribute to pain treatment disparities in adults with sickle cell disease

Mentor / Co-Investigator · American Psychological Foundation (Visionary Fund Grant) · \$19,250 · 2021–2023

Developing an intervention to improve the delivery of targeted health messages about HIV prevention to Black Americans

Primary Mentor (Mentee: Veronica Derricks) · Indiana CTSI (KL2 Program, UL1TR002529) · \$174,029 · 2021–2023

Examining the effects of contextually-imposed cognitive load on providers' chronic pain treatment decisions for racially and socioeconomically diverse patients

Primary Sponsor (student PI: Anastas) · NIMHD, NIH (F31MD014058) · \$86,866 · 2019–2021

Examining the influence of Hispanic ethnicity and ethnic bias on providers' pain decisions

Primary Sponsor (student PI: Hollingshead) · APA Division 38 (Graduate Student Research Grant) · \$1,500 · 2015–2016

Research training in medical rehabilitation

Postdoctoral Fellow · NCMRR, NIH (T32HD007424) · Annual stipend, travel, support expenses · 2008–2010

PEER-REVIEWED PUBLICATIONS (* indicates student/mentee)

Rassu, F.S., Mathur, V.A., Merriwether, E.N., & **Hirsh, A.T.** (in press). Accelerating the science of equity: Insights and innovations from *Health Psychology* on pain disparities. *Health Psychology*.

Kenney, M.O., Rassu, F.S., Bartley, E.J., **Hirsh, A.T.**, Janevic, M.R., Mathur, V.A., & Merriwether, E.N. (in press). Joint call to action paper – Pain Disparities special issue: Why this, Why Now? A unified call at a critical time. *Health Psychology & Journal of Pain*.

Vorensky, M., Squires, A., Trost, Z., Sturgeon, J.A., **Hirsh, A.T.**, Sajjani, N., Jones, S., & Rao, S. (in press). 'Maybe you should have a bowl of ice cream': Inequities in patient-clinician interactions among individuals with chronic low back pain. *The Journal of Pain*.

Taylor, H., Musey, P., **Hirsh, A.**, Thyvalikakath, T., Vest, J. (in press). The association of socioeconomic status and emergency department use for nontraumatic dental conditions. *Western Journal of Emergency Medicine*.

- Grol-Prokopczyk, H., Huang, R., Yu, C., Chen, Y., Kaur, S., Limani, M., Lin, T., Zajacova, A., Zimmer, Z., Cowan, P., Fillingim, R.B., Gewandter, J.S., Gilron, I., **Hirsh, A.T.**, Macfarlane, G.J., Meghani, S.H., Patel, K.V., Poleshuck, E.L., Strain, E.C., Symons, F.J., Wesselmann, U., Dworkin, R.H., & Turk, D.C. (in press). Over fifty years of research on social disparities in pain and pain treatment: A scoping review of reviews. *Pain*.
- Kissi, A., Van Ryckeghem, D.M.L., Mende-Siedlecki, P., **Hirsh, A.**, Van Alboom, I., Debeer, D., & Vervoort, T. (2025). Racialized bias in pediatric pain: The role of observers' attentional processing and estimations of children's pain. *PeerJ*, 13, e19969.
- Mulchan, S.S., Theriault, C.B., DiVietro, S., Litt, M.D., Wakefield, E.O., Sukhera, J., Tanabe, P., Thomas, H.R., Santos, M., Zempsky, W.T., Boruchov, D., & **Hirsh, A.T.** (2025). Initial evaluation of an intervention to address provider implicit bias in pediatric sickle cell disease pain care: A mixed methods pilot study. *Canadian Journal of Pain*, 8, 2486819.
- Kapos, K.P., Craig, K.D., Anderson, S.R., Bernardes, S.F., **Hirsh, A.T.**, Karos, K., Keogh, E., Losin, E.A., McParland, J.L., Moore, D.J., & Ashton-James, C.E. (2025). Response to Sullivan and Williams regarding "Social determinants and consequences of pain: Toward multilevel, intersectional, and life course perspectives." *The Journal of Pain*, 33, 105459.
- Kissi, A., *Carey, S., Debeer, D., Van Ryckeghem, D.M.L., **Hirsh, A.**, & Vervoort, T. (2025). Racialized disparities in pain and pain care among Belgian youth. *Frontiers in Psychiatry*, 16, 1579144.
- Mazurenko, O., Harle, C., Blackburn, J., Menachemi, N., **Hirsh, A.**, Grannis, S., Boustani, M., Musey, P., Schleyer, T., Sanner, L., & Vest, J.R. (2025). Effectiveness of a clinical decision support system with prediction modeling to identify patients with health-related social needs in the emergency department: Study protocol. *PLOS ONE*, 20, e0323094.
- Flegge, L.G., *Estrella, E., Harris, E.K., **Hirsh, A.T.**, & Bushey, M.A. (2025). Symptomatic joint hypermobility is not a barrier to attendance, graduation, or satisfaction for adults participating in a multidisciplinary pain rehabilitation program. *Frontiers in Pain Research*, 6, 1472160.
- Tracy, C., Milder, M., Vater, L., Lagges, A., Lemanek, K., Wrona, S., Gilbert, E., **Hirsh, A.T.**, Miller, M.M., Donahue, K., Streicher, M., & Williams, A.E. (2025). A retrospective review of psychosocial correlates of chronic pain in cisgender, transgender, and gender-diverse youth receiving evaluation in interdisciplinary pediatric pain clinics. *Canadian Journal of Pain*, 8, 2477466.
- Matthias, M.S., Burgess, D.J., Daggy, J.K., Donnelly, C.E., Flores, P., Fowler, N.R., Garabrant, J., Henry, N., Huffman, M., Kavuri, P.J., Ofner, S., Perry, C., Rand, K.L., Robles, M., Salyers, M.P., Taylor, S.L., & **Hirsh, A.T.** (2025). Equity Using Interventions for Pain and Depression (EQUIPD): A pilot randomized trial. *Journal of Pain*, 29, 105353.
- Williams, M.K., Crawford, C.A., Zapolski, T.C., **Hirsh, A.T.**, & Stewart, J.C. (2025). Longer-term mental health consequences of COVID-19 infection: Moderation by race and socioeconomic status. *International Journal of Behavioral Medicine*, 32, 111-123.
- Lee, J.L., Donnelly, C.E., **Hirsh, A.T.**, Weiner, M., Sperry, H.A., Fuqua, M.R., Natividad, D., & Matthias, M.S. (2025). Role of the VA's LGBTQ+ Veteran care coordinators in facilitating care for transgender and gender diverse Veterans. *The Permanente Journal*, 1-7.
- Mosher, C.E., Lee, S., Addington, E.L., Park, S., Lewson, A.B., Snyder, S., **Hirsh, A.T.**, Bricker, J.B., Miller, K.D., Ballinger, T.J., Schneider, B.P., Storniolo, A.M., Newton, E.V., Champion, V.L., & Johns, S.A. (2025). Randomized controlled trial of Acceptance and Commitment Therapy for fatigue interference with functioning in metastatic breast cancer. *Journal of Clinical Oncology*, 43, 662-671.
- Karos, K., Ashton-James, C.E., McParland, J., & **Hirsh, A.T.** (2025). COVID-19 and chronic pain: Implications and lessons learned. *Current Opinion in Psychology*, 62, 101985.
- Lee, J.L., **Hirsh, A.**, Radhakrishnan, A., Radhakrishnan, A., Jasuja, G.K., Taylor, S., Dickinson, S., Mineo, J., Carnahan, J., & Weiner, M. (2025). Mental health utilization among transgender Veterans. *JAMA Network Open*, 8, e2454694.
- Mazurenko, O., **Hirsh, A.T.**, Harle, C.A., McNamee, C., & Vest, J.R. (2024). Health-related social needs information in the emergency department: clinician and patient perspectives on availability and use. *BMC Emergency Medicine*, 25, 45.
- Miller, M.M., Kissi, A., Rumble, D.D., **Hirsh, A.T.**, Vervoort, T., Crosby, L. E., Madan-Swain, A., Lebensburger, J., Hood, A.M., & Trost, Z. (2024). Pain-related injustice appraisals, sickle cell stigma, and racialized discrimination in youth with sickle cell disease: a preliminary investigation. *Journal of Racial and Ethnic Health Disparities*, 1-10.

- Mazurenko, O., **Hirsh, A.**, Harle, C.A., Shen, J., McNamee, C., & Vest, J.R. (2024). Comparing the performance of screening surveys versus predictive models in identifying patients in need of health-related social need services in the emergency department. *PLOS ONE*, 19, e0312193.
- Mazurenko, O., **Hirsh, A.**, Harle, C.A., McNamee, C., & Vest, JR. (2024) A clinical decision support system for addressing health-related social needs in emergency department: Defining end user needs and preferences. *Applied Clinical Informatics*, 15, 1097-1106.
- Derricks, V., **Hirsh, A.T.**, Perkins, A.J., Daggy, J.K., & Matthias, M.S. (2024). Healthcare discrimination affects patient activation, communication self-efficacy, and pain for Black Americans. *The Journal of Pain*, 25, 104663.
- Mulchan, S.S., Theriault, C.B., DiVietro, S., Litt, M.D., Sukhera, J., Tanabe, P., Thomas, H.R., Zempsky, W.T., Boruchov, D. & **Hirsh, A.T.** (2024). Provider implicit racial bias in pediatric sickle cell disease. *Journal of Racial and Ethnic Health Disparities*, 1-9.
- Quinn, P.D., Mazurenko, O., Meraz, R., Chang, Z., Pujol, T.A., **Hirsh, A.T.**, Sjölander, A., Kroenke, K., & D'Onofrio, B.M. (2024). Varying definitions of long-term opioid therapy: Examining prevalence, prescription patterns, and substance-related adverse outcomes. *Pain Medicine*, 25, 687–689.
- Kapos, K.P., Craig, K.D., Anderson, S.R., Bernardes, S.F., **Hirsh, A.T.**, Karos, K., Keogh, E., Losin, E.A., McParland, J.L., Moore, D.J., & Ashton-James, C.E. (2024). Social determinants and consequences of pain: Towards multilevel, intersectional, and life course perspectives. *The Journal of Pain*, 104608.
- *Mehok, L.E., Walsh, K.T., Miller, M.M., Anastas, T.M., & **Hirsh, A.T.** (2024). Exercise and dietary recommendations for women with chronic pain: What's weight and race got to do with it? *The Journal of Pain*, 104505.
- Mazurenko, O., **Hirsh, A.T.**, Harle, C.A., McNamee, C., Vest, J.R. (2024). Acceptance of automated social risk scoring in the emergency department: Clinician, staff, and patient perspectives. *Western Journal of Emergency Medicine*.
- Schuiling, M.D., Shell, A.L., Callahan, C.M., Nurnberger, J.I., MacDonald, K.L., Considine, R.V., Wu, W., **Hirsh, A.T.**, Crawford, C.A., Williams, M.K., Lipuma, T.C., Gupta, S.K., Kovacs, R.J., Rollman, B.L., & Stewart, J.C. (2024). Effect of depression treatment on health behaviors and cardiovascular risk factors in primary care patients with depression and elevated cardiovascular risk: Data from the eIMPACT trial. *Psychological Medicine*, 54, 3303-3316.
- Shell, A.L., Crawford, C.A., Cyders, M.A., **Hirsh, A.T.**, & Stewart, J.C. (2024). Depressive disorder subtypes, depressive symptom clusters, and risk of obesity and diabetes: A systematic review. *Journal of Affective Disorders*, 353, 70-89.
- Matthias, M.S., Bolla, A.L., Bair, S.M., Adams, J., Eliacin, J., Burgess, D.J., & **Hirsh, A.T.** (2024). Communication and activation in pain to enhance relationships and treat pain with equity (COOPERATE): A qualitative analysis of a tailored coaching program for Black patients with chronic pain. *Journal of General Internal Medicine*, 39, 222-228.
- Matthias, M.S., Daggy, J.K., Perkins, A.J., Adams, J., Bair, M.J., Burgess, D.J., Eliacin, J., Flores, P., Myers, L.J., Menen, T., *Procento, P., Rand, K.L., Salyers, M.P., Shanahan, M.L., & **Hirsh, A.T.** (2024). Communication and activation in pain to enhance relationships and treat pain with equity (COOPERATE): A randomized clinical trial. *Pain*, 165, 365-375.
- *Anastas, T.M., Wu, W., Burgess, D.J., Stewart, J.C., Salyers, M.P., Kroenke, K., & **Hirsh, A.T.** (2024). The impact of patient race, patient socioeconomic status, and cognitive load of physician residents and fellow on chronic pain care decisions. *The Journal of Pain*, 25, 104480.
- Rogers, S.K., Galloway, A., **Hirsh, A.T.**, Zapolski, T., Chen, C.X., & Rand, K.L. (2023). Efficacy of psychological interventions for dysmenorrhea: A meta-analysis. *Pain Medicine*, 24, 1086-1099.
- *Lynch Milder, M.K., Bazier, A., Ward, S., Rand, K.L., & **Hirsh, A.T.** (2023). Resilience, social support, and health in emerging adults with and without chronic health conditions. *Emerging Adulthood*, 11, 557-571.
- *Anastas, T.M., Stewart, J.C., Rand, K.L., & **Hirsh, A.T.** (2023). Pain in people experiencing homelessness: A scoping review. *Annals of Behavioral Medicine*, 57, 288-300.
- *Mehok, L.E., Meints, S.M., Miller, M.M., Ashburn-Nardo, L., & **Hirsh, A.T.** (2023). Beliefs about race differences in pain vs. actual race differences in pain: An experimental investigation. *Journal of Health Disparities Research and Practice*, 16, Article 1.
- Polanka, B.M., Gupta, S.K., So-Armah, K.A., Freiberg, M.S., Zapolski, T.C.B., **Hirsh, A.T.**, & Stewart, J.C. (2023). Examining depression as a risk factor for cardiovascular disease in people with HIV: A systematic review. *Annals of Behavioral Medicine*, 57, 1-25.
- Ashton-James, C.E., Anderson, S.R., & **Hirsh, A.T.** (2023). Understanding the contribution of racially and ethnically discordant interactions to pain disparities: Proximal mechanisms and potential solutions. *Pain*, 164, 223-229.

- *Lynch Milder, M.K., McQuillan, M.E., Honaker, S.M., Miller, M.M., Tolley, J., Michel, M.A., **Hirsh, A.T.**, & Williams, A.E. (2022). Concurrent and longitudinal associations among insomnia symptoms, internalizing problems, and chronic pain in youth. *Health Psychology*, 42, 15-23.
- Mulchan, S.S., Miller, M.M., Theriault, C.B., Zempsky, W.T., & **Hirsh, A.T.** (2022). A systematic approach to developing virtual patient vignettes for pediatric health equity research. *Health Equity*, 6, 862-872.
- Matthias, M.S., Adams, J., Burgess, D., Daggy, J., Eliacin, J., Flores, P., **Hirsh, A.T.**, Myers, L.J., Perkins, A.J., Menen, T., *Procento, P., Rand, K., Salyers, M.P., Shanahan, M., & Bair, M.J. (2022). Communication and activation in pain to enhance relationships and treat pain with equity (COOPERATE): Rationale, study design, methods, and sample characteristics. *Contemporary Clinical Trials*, 118, 106790.
- Matthias, M.S., **Hirsh, A.T.**, Ofner, S., & Daggy, J. (2022). Exploring the relationships among social support, patient activation, and pain-related outcomes. *Pain Medicine*, 23, 676-685.
- Baert, F., Van Ryckeghem, D.M.L., Sanchez-Lopez, A., *Miller, M.M., **Hirsh, A.T.**, Trost, Z., & Vervoort, T. (2022). The impact of maternal child- and self-oriented pain-related injustice appraisals upon maternal attention to child pain, attention to anger, and pain-attending behavior. *British Journal of Pain*, 16, 303-316.
- Harvie, D.S., Smith, R.T., Martin, D., **Hirsh, A.T.**, & Trost, Z. (2022). Novel applications of virtual and mixed reality in pain research and treatment. *Frontiers in Virtual Reality*, 3, 1-3.
- *Milder, M.K., *Miller, M.M., Williams, A.E., Michel, M.A., Tolley, J., Scott, E.L., & **Hirsh, A.T.** (2022). Cross-sectional associations among components of injustice appraisals and functioning in adolescents with chronic pain. *Journal of Pediatric Psychology*, 47, 99-110.
- *Miller, M.M., Williams, A.E., Scott, E.L., Trost, Z. & **Hirsh, A.T.** (2022). Battle of the appraisals: Pain-related injustice versus catastrophizing as mediators in the relationship between pain intensity and 3-month outcomes in adolescents with chronic pain. *The Journal of Pain*, 23, 223-235.
- *Miller, M.M., Williams, A.E., Scott, E.L., Trost, Z. & **Hirsh, A.T.** (2022). Anger as a mechanism of injustice appraisals in pediatric chronic pain. *The Journal of Pain*, 3, 212-222.
- *Grant, A.D., *Miller, M.M., *Anastas, T.M., Quinn, P., Lok, B., & **Hirsh, A.T.** (2022). Opioid-related risk perceptions in chronic pain: influence of patient gender and prior misuse behaviors. *Pain*, 163, 711-718.
- *Hollingshead, N.A., Vransy, E., Hsueh, L., Stewart, J.C., & **Hirsh A.T.** (2022). Language use and generation status are associated with chronic pain differences in Mexican Americans. *Journal of Immigrant and Minority Health*, 24, 342-350.
- Kissi, A., Van Ryckeghem, D.M.L., Mende-Siedlecki, P., **Hirsh, A.T.**, & Vervoort, T. (2022). Racial disparities in observers' attention to and estimations of others' pain. *Pain*, 163, 745-752.
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BOOK CHAPTERS

- Price, D.D., **Hirsh, A.T.**, & Robinson, M.E. (2008). Psychological modulation of pain. In M.C. Bushnell, & A.I. Basbaum (Eds.), *The Senses: A Comprehensive Reference* (pp. 975-1002). The Netherlands: Elsevier.

INVITED LECTURES AND SYMPOSIA

- Hirsh, A.T.** (2025, October). *Patient-centered coaching to promote racial equity and shared decision-making in chronic pain care*. Keynote Presentation at the Sydney Pain Consortium: Planning for Progress and Impact, Sydney, NSW, Australia.
- Hirsh, A.T.** (2025, May). Moderator/Discussant (with T. Stanton) for the co-hosted Pain, Mind, and Movement SIG and Social Aspects of Pain SIG webinar series. *The social dimensions of pain: Understanding their power and pitfalls in clinical interventions and outcomes*. Speakers: M. Lumley, A. Meulders, & F. Pourkazemi. International Association for the Study of Pain.
- Hirsh, A.T.** (2025, April). *Patient-centered coaching to promote racial equity and shared decision-making in chronic pain care*. In L. Goubert (Chair), Understanding and addressing health inequalities in pain care: Strategies for promoting inclusivity and mental health. Symposium presented at the annual conference of the European Pain Federation, Lyon, France.
- Hirsh, A.T.** (2025, March). *Empowering patients to achieve equity in pain care*. Presentation given at Science on Tap hosted by Guggman Haus Brewing Company and Indiana University, Indianapolis, IN.
- Hirsh, A.T.** (2024, September). *A virtual perspective-taking intervention to reduce race and SES disparities in pain care: Past, present, & future*. Presentation given at the Center for Health Policy Research Seminar Series, Richard M. Fairbanks School of Public Health, Indiana University, Indianapolis, IN.
- Hirsh, A.T.** (2024, September). *Patient-centered coaching to promote racial equity and shared decision-making in chronic pain care*. In S. Bernardes and L. Goubert (Chairs), Addressing disparities in pain care: Perspectives for inclusive healthcare. Symposium presented at the annual conference of the European Health Psychology Society, Cascais, Portugal.
- Hirsh, A.T.** (2023, August). *Patient-focused interventions to enhance shared decision-making among Black patients with chronic pain*. Inaugural presentation given at the Diversity, Equity, and Inclusion Speaker Series, Division of Behavioral Medicine and Clinical Psychology, Cincinnati Children’s Hospital Medical Center, Cincinnati, OH.
- Hirsh, A.T.** (2023, August). *Patient-focused interventions to enhance shared decision-making among minoritized patients with chronic pain*. Presentation given at the Pain Special Interest Group webinar series, American Physical Therapy Association, Indiana Chapter.
- Hirsh, A.T.** (2023, June). *Patient-focused interventions to enhance shared decision-making for minoritized patients with chronic pain*. Presentation given at the Integrated Pain Management meeting of Project ECHO (Extension for Community Healthcare Outcomes), Indianapolis, IN.
- Hirsh, A.T.** (2023, April). Moderator/Discussant for the Social Aspects of Pain SIG webinar series. *Demographic and sociological approaches to population pain: Trends, disparities, and the role of upstream factors*. Speakers: H. Grol-Prokopczyk & A. Zajakova. International Association for the Study of Pain.
- Hirsh, A.T.** (2023, March). *Patient-focused interventions to enhance shared decision-making for chronic pain care*. In E. Losin (Chair), The clinician-patient relationship and pain: Clinical, experimental, and neurobiological approaches. Symposium presented at the annual conference of the US Association for the Study of Pain, Durham, NC.
- Hirsh, A.T.** (2022, December). *Understanding implicit bias and its impact on healthcare leadership*. Panel presentation given to the Indiana Health Executives Network, Indianapolis, IN.
- Hirsh, A.T.** (2022, March). *Pilot testing an intervention to empower Black patients with chronic pain*. Presentation given at the Multidisciplinary Pain Case Conference, Indiana University Health, Indianapolis, Indiana.
- Hirsh, A.T.** (2021, November). *Using VR to facilitate clinician treatment decision-making for pain*. Presentation given at the 2nd Virtual Pain Education Summit, European Pain Federation.

- Hirsh, A.T.** (2021, November). *Racial disparities in pain care: Causes, consequences, and correctives*. Presentation given at the Integrated Pain Management meeting of Project ECHO (Extension for Community Healthcare Outcomes), Indianapolis, IN.
- Hirsh, A.T.** (2021, July). Moderator/Discussant for the Pain Research Forum (PRF) webinar series. *The cultural neuroscience of pain*. Speaker: E. Losin. International Association for the Study of Pain.
- Hirsh, A.T.** (2021, June). *Racial disparities in pain care: Causes, consequences, and correctives*. In T. Vervoort (Chair), *Towards Understanding and Altering Disparities in Pain Care*. Topical Workshop presented at the IASP 2021 Virtual World Congress on Pain.
- Hirsh, A.T.** (2021, March). Moderator/Discussant for the Pain In Child Health (PICH) webinar series. *It's not fair: Parental appraisals of injustice in response to their child's pain*. Speaker: F. Baert. Centre for Pediatric Pain Research, IWK Health Centre, Halifax, Nova Scotia.
- Hirsh, A.T.** (2019, November). *Racial and ethnic disparities in pain: Contributing factors and innovative solutions*. Presentation given at the PAINTalks Speaker Series, University of Alabama at Birmingham, Birmingham, AL.
- Hirsh, A.T.** (2019, October). *Racial and ethnic disparities in pain: Contributing factors and innovative solutions*. Workshop given at the Centro de Investigação e Intervenção Social (CIS-IUL), University Institute of Lisbon (ISCTE-IUL), Lisbon, Portugal.
- Hirsh, A.T.** (2019, April). *Can A.I. improve pain care?* Presentation given at Science on Tap hosted by Blind Owl Brewing and Indiana University – Purdue University, Indianapolis, IN.
- Hirsh, A.T.** (2018, September). *Using interactive Virtual Human technology to improve pain care for racial minority and low-income patients*. In F. Keefe (Chair), *Virtual Reality and Chronic Pain: Discussion and Demonstration of the State of the Art and Future Directions*. Symposium presented at the 17th World Congress on Pain, Boston, MA.
- Hirsh, A.T.** (2018, September). *Examining the effects of gender and weight on pain judgments*. In A. Hirsh (Chair), *Sex and Gender Differences in Pain Perception and Experience*. Symposium presented at the 17th World Congress on Pain, Boston, MA.
- Hirsh, A.T.** (2018, August). *Using Virtual Humans to reduce pain treatment disparities: Patient- and provider-focused interventions*. In S. Bernardes (Chair), *Disparities in Pain Care: Psychosocial Accounts and Implications for Practice and Policy*. Symposium presented at the 32nd Annual Conference of the European Health Psychology Society, Galway, Ireland.
- *Baert, F., Trost, Z., **Hirsh, A.**, *Miller, M., Vervoort, T., & De Schryver, M. (2018, August). *Child pain and well-being: The role of parental perceptions of injustice*. In L. Caes (Chair), *Don't Forget the Parents: The Role of Parental Experience in Paediatric Chronic Conditions*. Symposium presented at the 32nd Annual Conference of the European Health Psychology Society, Galway, Ireland.
- Hirsh, A.T.** (2018, June). *Using interactive virtual humans to improve pain care for racial minority and low-income patients*. Presentation given at the 13th Annual NIH Pain Consortium Symposium, Bethesda, MD.
- Hirsh, A.T.** (2018, May). *Using virtual humans to reduce pain treatment disparities: Patient- and provider-focused interventions*. In P. Mende-Siedlecki (Chair), *Emerging Psychobiosocial Perspectives on Racial Disparities in Health Care*. Symposium presented at the 30th Annual Convention of the Association for Psychological Science, San Francisco, CA.
- Hirsh, A.T.** (2018, March). *Using virtual humans to reduce pain treatment disparities: Patient- and provider-focused interventions*. In H. van Middendorp (Chair), *Bringing Psychological Interventions into the Digital Era*. Symposium presented at the 76th Scientific Meeting of the American Psychosomatic Society, Louisville, KY.
- Hirsh, A.T.** (2017, December). *Mechanism-based interventions to reduce race and SES disparities in pain care*. Presentation given at the ADDAPT (Addressing Disparities in the Distribution and Assessment of Pain and Its Treatments) workshop sponsored by ACTION (Analgesic, Anesthetic, and Addiction Clinical Trial Translations, Innovations, Opportunities, and Networks), Potomac, MD.
- Hirsh, A.T.** (2017, June). *Racial/ethnic disparities in pain: Contributing factors and innovative solutions*. Presentation given at the Anesthesiology & Perioperative Medicine Grand Rounds, Mayo Clinic, Rochester, MN.
- Hirsh, A.T.** (2017, May). *Racial & ethnic disparities in pain: Provider & contextual factors and potential solutions*. Presentation given for the Webinar Series: Decision Making and Pain hosted by The Translational Research Institute on Pain in Later Life (TRIPLL), Weill Cornell Medical College, New York, NY.
- Hirsh, A.T.** (2016, May). *Provider and contextual factors that contribute to pain-related disparities*. In C.A. Shankar (Chair), *A Socioecological Model to Examine Disparities in Pain Care*. Symposium presented at the 35th Annual Scientific Meeting of the American Pain Society, Austin, TX.

- Hirsh, A.T.** (2015, January). *A multi-methods research agenda to understand and reduce pain treatment disparities*. Presentation given at the Pain Lecture Series, Stanford School of Medicine, Palo Alto, CA.
- Hirsh, A.T.** (2014, October). *Using Virtual Human technologies to understand and inform pain judgments*. Presentation given at the Blaustein Pain Center Grand Rounds, Johns Hopkins School of Medicine, Baltimore, MD.
- Hirsh, A.T.** (2014, July). *Using Virtual Human technologies to understand and inform pain judgments*. Presentation given at the Interdisciplinary Pain Seminar, Cincinnati Children's Hospital Medical Center, Cincinnati, OH.
- Hirsh, A.T.** (2014, April). *Using Virtual Human technologies to understand and inform clinicians' treatment decisions*. In F.J. Keefe (Chair), *Understanding and Treating Persistent Pain Using Virtual Technologies*. Symposium presented at the 33rd Annual Scientific Meeting of the American Pain Society, Tampa, FL.
- Hirsh, A.T.** (2012, September). *Patient, provider, and contextual influences on pain decision-making*. Presentation given at the Work-in-Progress Seminar of the HSR&D Center of Excellence, Roudebush VA Medical Center, Indianapolis, IN.
- Hirsh, A.T.** (2012, October). *Patient, provider, and contextual factors that influence pain treatment decisions*. Presentation given at the Marian University Interdisciplinary Seminar Series, Indianapolis, IN.
- Merlo, L.J., Lehmkuhl, H., Faul, L.A., **Hirsh, A.**, & Geffken, G. (2006, March). *Intensive CBT for the treatment of panic disorder with co-morbid major depressive disorder*. In L.J. Merlo (Chair), *Intensive CBT for Three Anxiety Disorders across the Life Span using Multiple Therapists*. Symposium presented at the Annual Meeting of the Anxiety Disorders Association of America, Miami, FL.
- O'Brien, K.A., **Hirsh, A.**, Adkins, J., Storch, E., & Geffken, G. (2006, March). *Intensive Cognitive Behavioral Therapy (CBT) for an elderly patient with Obsessive Compulsive Disorder (OCD) and comorbid medical conditions*. In L.J. Merlo (Chair), *Intensive CBT for Three Anxiety Disorders across the Life Span using Multiple Therapists*. Symposium presented at the Annual Meeting of the Anxiety Disorders Association of America, Miami, FL.

TEACHING ACTIVITIES

Instructor

Course: Behavioral Medicine
Level: Graduate
Department: Psychology, Indiana University Indianapolis

Course: Intervention I: Counseling Approaches
Level: Graduate
Department: Psychology, Indiana University Indianapolis

Course: Abnormal Psychology
Level: Undergraduate
Department: Psychology, Indiana University Indianapolis

EDITORIAL ACTIVITIES

Editorial Board

Annals of Behavioral Medicine
 The Journal of Pain

Guest Editor

Health Psychology & Journal of Pain, 2025 coordinated special issues on *Pain Disparities*
 Frontiers in Virtual Reality: Virtual Reality in Medicine, 2022 special issue on *Novel Applications of Virtual and Mixed Reality in Pain Research and Treatment*

Reviewer

Annals of Behavioral Medicine; Anxiety, Stress, & Coping; Archives of Physical Medicine and Rehabilitation; Arthritis Care & Research; Behavior Research and Therapy; British Journal of Health Psychology; Childhood Obesity; European Journal of Pain; Frontiers in Virtual Reality; Health Psychology; International Journal of Psychophysiology; Journal of Behavioral Medicine; Journal of Clinical Psychology in Medical Settings; Journal of General Internal Medicine; Journal of Racial and Ethnic Health Disparities; Journal of Rehabilitation Research and Development; Journal of Women's

Health; Pain; Pain Medicine; Pain Practice; Pain Reports; Rehabilitation Psychology; The Clinical Journal of Pain; The Journal of Pain

OTHER PROFESSIONAL POSITIONS AND MEMBERSHIPS

Chair

Social Aspects of Pain Special Interest Group, International Association for the Study of Pain, 2022-present
Psychosocial Research Special Interest Group, American Pain Society, 2013-2015

Executive Board

Pain and Disparities Special Interest Group, American Pain Society, 2013-2017

Member

HEAL Pain Strategic Planning Committee – Optimization of Existing & Novel Interventions to Improve Pain Management Subcommittee, National Institutes of Health, 2024-present
Mentor, Leadership Academy of the US Association for the Study of Pain (USASP), 2024-present
Workshop on Advancing Health Equity in Pain Management – Multi-Level Interventions Panel leader, HEAL Initiative, National Institutes of Health (NIH), 2024
Analgesic, Anesthetic, and Addiction Clinical Trial Translations, Innovations, Opportunities, and Networks (ACTION) – Addressing Disparities in the Distribution and Assessment of Pain and its Treatments (ADDAPT) Work Group, U.S. Food and Drug Administration (FDA), 2017-present
Data and Safety Monitoring Boards, National Institutes of Health (NIH)

- *Corticostriatal Plasticity in the Transition to Chronic Pain: Effect of L-dopa* (2014-2017)
- *Effect of COMT Genetic Polymorphisms on Response to Propranolol Therapy in Temporomandibular Disorder (SOPPRANO)* (2014-2019)
- *Investigation and Modulation of the Mu-Opioid Mechanisms in TMD (in vivo)* (2017-2022)

Special Emphasis Panel (ZAT AM05), NCCIH Training and Education Review Panel (CT), National Center for Complementary and Integrative Health (NCCIH), National Institutes of Health (NIH), 2024
Special Emphasis Panel (ZNS1 SRB-F90), Interdisciplinary Training Awards in Clinical Pain Research (T90/R90), National Institute of Neurological Disorders and Stroke (NINDS), National Institutes of Health (NIH), 2024
Special Emphasis Panel, Urinary Stone Disease Research Network (U01), National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH), 2021
Review Panel, Israel Science Foundation (ISF), Personal Research Grants Program, 2021
Scientific Advisor (Advisee: V. Derricks), University of Utah Grant Writing Coaching Program, National Research Mentoring Network, National Institutes of Health (NIH), 2021
Review Panel, UK National Institute for Health Research (NIHR), Intervention for Innovation (i4i) Programme, 2019
Special Emphasis Panel (ZDE1 CF12), National Institute of Dental and Craniofacial Research (NIDCR), National Institutes of Health (NIH), 2019
Interagency Pain Research Coordinating Committee (IPRCC) – Disparities Work Group, National Institutes of Health (NIH), 2016-2018
Special Emphasis Panel (ZRG1 HDM-Z (02) M), Center for Scientific Review, National Institutes of Health (NIH), 2016
Special Emphasis Panel, Urinary Stone Disease Research Network (U01), National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH), 2016
Peer Review Panel, Pre-applications–Non-Opioid Pain Management (PRE–NOPM), Peer Reviewed Medical Research Program (PRMRP), Department of Defense Congressionally Directed Medical Research Programs (CDMRP), 2016
Review Committee, Collaboration in Translational Research (CTR) Pilot Grant Program, Indiana Clinical and Translational Sciences Institute (CTSI), 2016
Awards Committee, American Pain Society, 2016
Program Committee, Walther Center for Palliative Care Research and Education, Indiana University Cancer Center, 2014
Early Career Reviewer Program, Center for Scientific Review, National Institutes of Health, 2012-2015
International Association for the Study of Pain (IASP)
US Association for the Study of Pain (USASP)
Canadian Pain Society (CPS)
Society of Behavioral Medicine (SBM)
Society for Biopsychosocial Science and Medicine (SBSM)
Academy of Behavioral Medicine Research (ABMR)