The Expanding Horizons Initiative (EHI)
College of Arts and Sciences
Case Western Reserve University
Impact Report

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Overview

The College of Arts and Sciences formalized and launched the Expanding Horizons Initiative (EHI) in October 2020 with an initial university investment of $250,000.

As of December 2022, we raised $7.4 million from some of our most loyal donors to support EHI. Thanks to their generosity, we are strengthening our research enterprise, building mentoring relationships between faculty members and students, and supporting faculty projects that will positively impact the community and society at large. We have also generated early returns on these donor investments in the form of external funding, student advancement, and publications and performances that have advanced the college’s reputation.

Our goal is to establish a $12 million EHI endowment fund, which will yield approximately $500,000 annually to support interdisciplinary projects that involve faculty and student collaborations and mentoring. With this level of funding, EHI will support 30 projects and approximately 90 students each year.

<table>
<thead>
<tr>
<th>EHI Program Summary</th>
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<tbody>
<tr>
<td>Grants awarded range from $500 to $30,000</td>
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<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Funded Projects</th>
<th>Funds Awarded</th>
</tr>
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<tbody>
<tr>
<td>EHI 2021</td>
<td>21</td>
<td>$269,089</td>
</tr>
<tr>
<td>EHI 2022</td>
<td>18</td>
<td>$230,666</td>
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| Total Amount Awarded | $499,755 |

EHI Funding Categories

Each year, EHI provides funding opportunities in several categories, and these can be increased and adjusted in response to critical needs in society.

Year 1 Funding Categories
1. Interdisciplinary Grants
2. Foundational Grants
3. Social and Racial Justice Grants
4. Morrell Heald Fund for Curricular Innovation
5. Teaching Innovation Grants
6. Finish Line Fund

Year 2 Funding Categories
1. Disciplinary Grants: Large and Small Awards
2. Interdisciplinary Grants: Large Awards
3. Social and Racial Justice Grants
4. Morrell Heald Fund for Curricular Innovation
5. Teaching Innovation Grants
6. Finish Line Fund
7. Grant, Manuscript or Performance Pre-Review Fund

Year 3 Funding Categories
Awardees To Be Announced May 2023
1. Disciplinary Grants: Large and Small Awards
2. Interdisciplinary Grants: Large Awards
3. Social and Racial Justice Grants
4. Morrell Heald Fund for Curricular Innovation
5. Teaching Innovation Grants
6. Finish Line Fund
7. Grant, Manuscript or Performance Pre-Review Fund
Project Description: Youth anxiety and depression are common, but few adolescents receive treatment due to a lack of access to care and the stigma of seeking treatment. Disseminating evidence-based interventions for underserved youth in non-stigmatizing ways is a priority. Project DRAMA meets this challenge through dramatherapy, the therapeutic use of the arts in the community to promote wellness.

Research suggests that there may be social-emotional benefits inherent in the practice of theater arts such as improvisational (improv) techniques. This study will contribute to the emerging literature on the psychological benefits of the theater arts by evaluating the impact of improv + Cognitive-Behavioral Therapy (CBT), one type of evidence-based therapy, in addressing youth anxiety and depression and improving peer relationships.

Przeworski and Bohan hope to eventually create a curriculum for schoolteachers that uses improv and wellness strategies to help teens with anxiety issues.

"The National Endowment for the Arts is proud to support this project from Professor Przeworski, one of only 18 Research Grants in the Arts projects funded this fiscal year," said Sunil Iyengar, director of the NEA’s Office of Research & Analysis.

Amy Przeworski, associate professor of psychological sciences, and theater instructor Christopher Bohan received a National Endowment for the Arts (NEA) Research Grant for $75,000 in January 2022 that will allow them to continue research for their 2021 EHI-funded project, Project DRAMA: Developing Resilience & Anxiety Management in Adolescents.

Phuonguyen (Hailey) V. Chu, a CWRU graduate student of Dr. Przeworski, presented Project DRAMA at the College of Arts and Sciences’ inaugural donor appreciation event, IGNITE, during Homecoming Weekend 2022. At a student poster session featuring EHI-funded projects, donors and alumni voted on their favorite presentations, and the winners received $1,000 awards.
EXPANDING HORIZONS INITIATIVE—2021 AWARDS

Year 1 Funding Categories
Awardees Announced May 2021

1. Interdisciplinary Grants
2. Foundational Grants
3. Social and Racial Justice Grants
4. Morrell Heald Fund for Curricular Innovation
5. Teaching Innovation Grants
6. Finish Line Fund

Interdisciplinary Grants: Large Awards

Title: Translation Practices During the Cold War: A Multidisciplinary Approach
PI: Damaris Puñales-Alpízar (Modern Languages and Literatures)
Funded Amount: $29,940

Title: Immersive Dance Performance: Using Laser Projection, Motion Tracking and Spatial Audio in Dance
PI: Gary Galbraith (Dance)
Funded Amount: $30,000

Title: Single-Molecule Imaging of F-Element Separations to Advance Purification Design
PI: Lydia Kisley (Physics)
Funded Amount: $30,000

Title: Interdisciplinary Research at the Interface of Health Science and the Environment (IRIHSE)
PI: Blanton Tolbert (Chemistry)
Funded Amount: $30,000

Title: Democracy and Global Challenges: Understanding Democracy’s Tangible Benefits
PI: Kelly McMann (Political Science)
Funded Amount: $30,000

Title: A New Mechanism for Species Persistence in Cities: Contemporary, Compensatory Evolution of Recombination Rate
PI: Ryan Martin (Biology)
Funded Amount: $15,000

Title: Does Strain-Level Variation Contribute to Microbial Response to Change in Permafrost Soil?
PI: Sarah Bagby (Biology)
Funded Amount: $29,986

Interdisciplinary Grants: Small Awards

Title: Crystals of Sound: Using the Physics of Phase Transitions to Compose and Perform Music
PI: Jesse Berezovsky (Physics)
Funded Amount: $11,000

Title: Project DRAMA: Using Theatrical Techniques to Develop Resilience & Anxiety Management in Adolescents
PI: Amy Przeworski (Psychological Sciences)
Funded Amount: $12,000

Foundational Grants: Small Awards

Title: Do Climate-Change-Driven Shifts to Earlier Breeding Affect Amphibian Development through Novel Photoperiods?
PI: Michael Benard (Biology)
Funded Amount: $9,610

Title: Piloting a Community-Based Science Database for Rhododendron
PI: Jean H. Burns (Biology)
Funded Amount: $8,000
Grant, Manuscript or Performance Pre-Review

**Title:** Testing Plant Defense Theory for Plant-Pathogen-Mutualist Interactions: A Phylogenetic Comparative Approach  
**PI:** Jean H. Burns (Biology)  
**Funded Amount:** $500

Teaching Innovation Grants

**Title:** Equipment support for the transformation of undergraduate biology labs into course-based undergraduate research experiences  
**PI:** Robert Ward (Biology)  
**Funded Amount:** $4,000

Social and Racial Justice Grants

**Title:** Pressing Matters: Printmaking, Self-Advocacy and Community Activism in East Cleveland  
**PI:** Erin Benay (Art History and Art)  
**Funded Amount:** $9,848

**Title:** In the Era of the #MeToo Movement: Memory, Sexual Assault, and Trauma-Related Outcomes on Campus  
**PI:** Norah Feeny (Psychological Sciences)  
**Funded Amount:** $9,430

The Morrell Heald Endowed Fund for Curricular Innovation

**Title:** An Introduction to the Universe and the Meaning of Everything: An Interdisciplinary Approach to the Big Questions of Human Existence  
**PI:** Harsh Mathur (Physics)  
**Funded Amount:** $4,000

Finish Line Fund

**Title:** Lexical and Grammatical Aspect in On-line Processing of English Past Tense and Progressive Aspect by Mandarin Speakers  
**PI:** Yasuhiro Shirai (Cognitive Science)  
**Funded Amount:** $1,475

**Title:** Image Permissions and Photography for The Radical Vision of Edward Burne-Jones  
**PI:** Andrea Wolk Rager (Art History and Art)  
**Funded Amount:** $3,000

Grant, Manuscript or Performance Pre-Review

**Title:** Roja Babel: geopolitics of translation Socialist Cuba and the Eastern Bloc (1960-1990)  
**PI:** Damaris Puñales-Alpízar (Modern Languages and Literatures)  
**Funded Amount:** $500

**Title:** Nussbaum's Politics of Wonder: How the Mind's Original Joy Is Revolutionary  
**PI:** Jeremy Bendik-Keymer (Philosophy)  
**Funded Amount:** $500

**Title:** Casta State of Mind: Michael Menchaca and the Graphic Revolution of Caste  
**PI:** Erin Benay (Art History and Art)  
**Funded Amount:** $300
Publications & Creative Works

Journal Articles

"Casta State of Mind: Michael Menchaca and the Graphic Revolution of Caste"
Erin Benay
2022, *Art Journal, 81*(2), 54–74

"Lexical and Grammatical Aspect in On-line Processing of English Past Tense and Progressive Aspect by Mandarin Speakers"
Yasuhiro Shirai
June 2021, *Frontiers in Psychology*

Books & Book Chapters

*Nussbaum’s Politics of Wonder: How the Mind's Original Joy Is Revolutionary*
Jeremy Bendik-Keymer
January 2023, Bloomsbury Publishing

*The Radical Vision of Edward Burne-Jones*
Andrea Wolk Rager
June 2022, Paul Mellon Centre for Studies in British Art

Support for Conferences

Conference: American Physical Society
Faculty: Lydia Kisley
Graduate Student: Neria Monge
Project Title: Single-Molecule Imaging of F-Element Separations to Advance Purification Design

Conference: National Humanities Conference
Faculty: Erin Benay
Project Title: Pressing Matters: Printmaking, Self-Advocacy, and Community Activism in East Cleveland

Conference: Evolution Conference
Faculty: Ryan Martin
Project Title: A New Mechanism for Species Persistence in Cities: Contemporary, Compensatory Evolution of Recombination Rate

Conference: American Physical Society
Faculty: Jesse Berezovsky
Project Title: Crystals of Sound: Using the Physics of Phase Transitions to Compose and Perform Music

Conference: American Political Science Association Annual Meeting
Faculty: Kelly McMann
Project Title: Democracy and Global Challenges: Understanding Democracy’s Tangible Benefits

Conference: American Public Health Association Annual Meeting
Faculty: Kelly McMann
Project Title: Democracy and Global Challenges: Understanding Democracy’s Tangible Benefits
Year 2 Funding Categories
Awardees Announced May 2022

1. Disciplinary Grants: Large and Small Awards
2. Interdisciplinary Grants: Large Awards
3. Grant, Manuscript or Performance Pre-Review Fund
4. Teaching Innovation Grants
5. Morrell Heald Fund for Curricular Innovation
6. Finish Line Fund

Disciplinary Grants: Large Awards

Title: The International Survey of Human Rights  
Pl: Brian Gran (Sociology)  
Funded Amount: $16,580

Title: American Regional Theatre: Past, Present, and Future  
Pl: Jeffrey Ullom (Theater)  
Funded Amount: $16,075

Title: Monetary Language and Thought  
Pl: Todd Oakley (Cognitive Science)  
Funded Amount: $15,000

Disciplinary Grants: Small Awards

Title: CWRU-UBonn Graduate Student Collaborative Experience  
Pl: John Protasiewicz (Chemistry)  
Funded Amount: $8,000

Title: Is the L2 Acquisition of Relative Clauses Governed by Syntax or Semantics? A Corpus-Based Study  
Pl: Yasuhiro Shirai (Cognitive Science)  
Funded Amount: $5,179

Interdisciplinary Grants: Large Awards

Title: Machine Learning on Surface Topography for Painting Attribution and Conservation  
Pl: Kenneth Singer (Physics, Art History and Art)  
Funded Amount: $19,500

Title: Local Psilocybin Use and Themes of Psilocybin Use in the Media  
Pl: Lee Hoffer (Anthropology)  
Funded Amount: $23,040

Title: Photopharmacology in the Visual Cycle  
Pl: Gregory Tochtrop (Chemistry)  
Funded Amount: $20,000

Title: Do Insects Sniff with Their Wings?  
Pl: Mark Willis (Biology)  
Funded Amount: $30,000

Title: A Multidisciplinary Approach to Constraining Andean Uplift and Miocene Paleoenvironments in Bolivia  
Pl: Beverly Saylor (Earth, Environmental and Planetary Sciences)  
Funded Amount: $26,080

Title: Peer-Led Learning Communities to Support Underserved Students in Science and Math Gateway Courses  
Pl: Stephen Haynesworth (Biology)  
Funded Amount: $30,000
Grant, Manuscript or Performance Pre-Review Fund

Title: REU Site: The Here and Now: Underappreciated Synergies between Space and Time as Drivers of Ecological Dynamics
Author: Jean H. Burns (Biology)
Funded Amount: $500

Title: Tense and Temporality in Second Language Acquisition
PI: Yasuhiro Shirai (Cognitive Science)
Funded Amount: $500

Teaching Innovation Grants

Title: Icon Dresden: Baroque City, Air War Symbol, Political Token
PI: Susanne Vees-Gulani (Modern Languages and Literatures)
Funded Amount: $8,000

Morrell Heald Endowed Fund for Curricular Innovation

Title: Building Interdisciplinary Experiential Education for Addressing Critical Community Health Issues
PI: Janet McGrath (Anthropology)
Funded Amount: $4,000

Finish Line Fund

Title: Open Access Mathematics Articles
PI: David Singer (Mathematics)
Funded Amount: $2,212.32

Title: "How Knowledge Grows: The Evolutionary Development of Scientific Practice"
PI: Christopher Haufe (Philosophy)
Funded Amount: $3,000

Support for Conferences

Conference: 18th Ohio Latin Americanist Conference 2022
Faculty: Demaris Puñales-Alpízar
Graduate Students: Rachel Beller, Jordan Deskins and Peter Chin
Project Title: Translating Socialism: A Multilingual Approach

Title: "Yo solía decir su nombre: Carl Phillips' poems in Spanish: A Translation"
PI: Cristian Gomez Olivares (Modern Languages and Literatures)
Funded Amount: $3,000

Publications & Creative Works

Journal Articles

"The Trefoil Solution, Mathematics"
David Singer
May 2022, *MDPI*, 10, 1512

"The Trefoil and Fair Splines"
David Singer (with Troy Clark)
May 2022, *Computer Aided Design and Applications* 19 (6)1255–1269

Books & Book Chapters

*How Knowledge Grows: The Evolutionary Development of Scientific Practice*
Christopher Haufe
November 2022, MIT Press

*Yo solía decir su nombre: Carl Phillips' poems in Spanish: A Translation*
Cristian Gomez Olivares
June 2020, Editorial Aparte
At A Glance

Engaged
45 + faculty
93+ Undergraduates
22+ Graduate Students

39 Projects Funded
July 1, 2021 - June 30, 2022

8 Publications and Creative Works

7 Conferences Attended by Faculty & Graduate Students

$7.4 Million Raised in Endowed Funds & Gifts

$12 Million Endowment Goal

$7.4 Million Raised in Endowed Funds & Gifts

Impact Report
July 2021 – Dec 2022

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