Faculty Accomplishments in Research, Scholarship, and Creative Activity, 2019

The Architecture Research and Design Center (ARDC) facilitates and coordinates research and design activities within the College of Architecture (CoA). The Center assists faculty and students in their research/scholarship/creative endeavors, serves as a liaison to other research centers and institutes, and provides architectural/research services to the community.

The ARDC is headed by the Associate Dean for Research of the CoA, and has one staff member. Physical resources include a fully equipped conference room and space for four research assistants. It also offers high definition laser scanning equipment, ground-penetrating radar, and GPS survey instruments, among others. ARDC showcases faculty research, scholarship, and creative activities and houses a permanent collection of faculty productions. A list of faculty expertise is also available.

In the calendar year 2019, CoA faculty have published two books, published four book chapters, twenty peer-reviewed journal articles, and seven conference proceedings, and six technical reports. Faculty have presented thirty-two peer-reviewed papers at national and international conferences and have given thirteen invited lectures in national and international venues. Faculty have exhibited their creative work in ten international and national venues.

Two faculty are involved in conducting ongoing research funded by the United States Department of Education for an HSI STEM Grant and by the Federal Democratic Republic of Ethiopia Ministry of Education for the International University Partnership for the Establishment of Postgraduate Programmes in Ethiopia. Faculty have garnered applied for a total of $3,000,000 in grants from the NIH and NSF. They have won $130,000 in national grants, $350,000 in local and university grants.

Additionally, faculty have organized conferences and workshops nationally, served as peer reviewers of journal articles and books, and served as panelists, nominators, and editors. Faculty also exhibited the work of their students at the local First Friday Art Trail and other venues. Full details of their research related activities are presented in the following pages.

Clifton Ellis, Ph.D.,
Associate Dean for Research
Elizabeth Sasser Professor of Architectural History
Books


Book Chapters


Journal Articles


Key, S. A Descriptive Framework for Computational Representation of Spatial Qualities. *Spatial Cognition and Computation*.


Stiphany, K. In Catesby Holmes (International Desk) (Ed.), *São Paulo has a big urban plan. What about its slums?*


**Conference Proceedings**

Aranha, J. Foreward. In Gusti Ayu Made Suartika and Julie Nichols (Ed.), *Reframing the Vernacular: Politics, Semiotics and Representation* (pp. v). Cham: Springer Press,


Shacklette, B. (2019). Designed for Repair-ability: Learning from the German Country Schools of Gillespie County, Texas. In Ameri & Dagg (Ed.), *The Ethical Imperative, Conference Paper Proceedings Published May*


Technical Reports

Zook, J. Design to Prevent Patient Falls Module.


Zook, J. Space Syntax Analysis of Hillsborough Inpatient Units.

Conference Presentations


Hadighi, M. Local Adaptation of the International Style: Contextualizing Global Architecture between East and West (pp. 15). Berlin: eCAADe.


Maher, T. (2019). Hops, Skips, and Jumps along MiLines. College Station, TX: 2019 Architecture and Film Symposium, Texas A&M.


Raab, P. (Leader), 80th Annual Convention and Design Expo, Texas Society of Architects, Galveston, TX, "Timber Structures, Envelopes and Interiors.," State. (October 24, 2019).


Stiphany, K. (Presenter & Author), Sowell, J. (Author Only), Palazzi Perez, L. (Presenter & Author), Larson, K. (Author Only), Corbett, J. (Author Only), Marcussi, T. (Presenter & Author), Brigon, N. (Author Only), Sustainable Corridors? Exploring the Interface between Infrastructure Planning and Social Transformation at the Metropolitan Scale, Utrecht University, São Paulo, Brazil, "13 Points Toward a Resilient Urban Infrastructure," International, published in proceedings. (November 21, 2019).


Invited Lectures


Flueckiger, U. P., School of Architecture, University of Texas, San Antonio, State. (September 30, 2019).


Hadighi, M. (Presenter & Author), Pisciotta, H., Poerschke, U., DOCOMOMO Tour, Penn State University (the Department of Architecture; Hamer Center for Community Design; Libraries), State College, PA, "College Town Modernism," Regional. (May 10, 2019).


Kripa, E. (Presenter Only), Architecture Lecture Series, University of Houston College of Architecture, Houston, TX, "MX/TX," National. (February 18, 2019).


Park, K., Ewha Lecture 2019 (Lecture Series), Department of Architecture, Ewha University, Seoul, South Korea, "Computation in Architecture." (May 21, 2019).

Zook, J., National Hospital Infrastructure Summit, Informa, Syndey, Australia, "Pillow, table, hallway, yard: Healthcare architecture at scale," National. (December 5, 2019).

Exhibitions


Awards

Maher, Terah: Maria Jeffreys Community Spirit Award, College of Architecture, Texas Tech University, College. (December 12, 2019).

Mueller, Stephen: Incubator Prize, Columbia University Graduate School of Architecture Planning and Preservation (GSAPP), International. Supports GSAPP alumni in their development of new ideas and projects about architecture, contemporary culture, and the future of the city. (September 2019).
Grants:

Joe Aranha

<table>
<thead>
<tr>
<th>Year</th>
<th>Title of Current Research or Grant</th>
<th>Granting Agency</th>
<th>Amount ($)</th>
<th>Chief Investigators &amp; Faculty Members in order</th>
<th>Percent Contribution</th>
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<tbody>
<tr>
<td>2017</td>
<td>CONTINUATION: International University Partnership for the Establishment of Postgraduate Programmes in Ethiopia with the British Council</td>
<td>British Council</td>
<td>$1,078,935</td>
<td>Ekwaro-Osire, S. (Principal), Aranha, J. (Co-Principal), Louis, D. (Co-Principal), Ghebrab, T. (Co-Principal), Senadheera, S. (Co-Principal), Uddameri, V. (Co-Principal), Perry, G. (Co-Principal)</td>
<td>15%</td>
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<table>
<thead>
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<th>Status</th>
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<tr>
<td>New Award</td>
<td>TTU scholarship catalyst grant</td>
<td>TTU Office of Provost</td>
<td>$3,000</td>
<td>Aranha, J. (Principal)</td>
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<tr>
<td>Current</td>
<td>International University Partnership in the Establishment of Postgraduate Programmes in Ethiopia - II</td>
<td>Federal Democratic Republic of Ethiopia Ministry of Education</td>
<td>$31,223</td>
<td>(Principal)</td>
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<tr>
<td>Current</td>
<td>International University Partnership for the Establishment of Postgraduate Programmes in Ethiopia with the British Council</td>
<td>Federal Democratic Republic of Ethiopia Ministry of Education</td>
<td>$624,464</td>
<td>Ekwaro-Osire, S. (Principal), Aranha, J. (Co-Principal), Louis, D. (Co-Principal), Ghebrab, T. (Co-Principal), Senadheera, S. (Co-Principal), Uddameri, V. (Co-Principal)</td>
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David Driskill

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<tr>
<th>Year</th>
<th>Title of Current Research or Grant</th>
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<th>Chief Investigators &amp; Faculty Members in order</th>
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<tbody>
<tr>
<td>2018</td>
<td>Sustainable Design Assessment Team</td>
<td>American Institute of Architects</td>
<td>$15,000</td>
<td>Driskill, D. A. (Principal)</td>
<td>50%</td>
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</table>
### Sustainable Design Assessment Team

<table>
<thead>
<tr>
<th>Year</th>
<th>Title of Research or Grant</th>
<th>Granting Agency</th>
<th>Amount</th>
<th>Chief Investigators &amp; Faculty Members in order</th>
<th>Percent Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>Sustainable Design Assessment Team</td>
<td>Lubbock Entertainment Preforming Arts Association, Downtown Tax increment finance district, City of Lubbock, Lubbock Economic Development Alliance, AIA Lubbock, Alderson Cadillac, MWM Architects, Mary Crites AIA</td>
<td>$5,000</td>
<td>Driskill, D. A. (Principal)</td>
<td>50%</td>
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### Fall 2019

- **Title of Current Research or Grant**: A Celebration of Architecture: Buddy Holly Hall for the Perf. Arts and Science
- **Granting Agency**: Civic Lubbock Inc
- **Amount**: $11,200
- **Chief Investigators & Faculty Members in order**: Urs Peter Flueckiger (Principal)

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### Urs Peter Flueckiger

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<th>Status</th>
<th>Title of Current Research or Grant</th>
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<th>Amount</th>
<th>Chief Investigators &amp; Faculty Members in order</th>
<th>Percent Contribution</th>
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<tr>
<td>Pending</td>
<td>IRES Track III Collaborative Research: Constructing Infrastructures for Resilience in Informal Settlements across the Americas</td>
<td>National Science Foundation</td>
<td>$441,176</td>
<td>Stiphany, K., Flueckiger, U. P. (Co-Principal), Sowell, J. (Co-Principal), Longnecker, W. (Supporting), Aquino, A. (Supporting)</td>
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### Robert Gonzalez

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<tr>
<td>Declined</td>
<td>Transbordering Architecture, Environments, and Epistemology</td>
<td>The Graham Foundation</td>
<td>$30,000</td>
<td>Stiphany, K. (Co-Principal), Gonzalez, R. (Co-Principal), Zook, J. n. (Other)</td>
<td>50%</td>
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### Sora Key

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<th>Chief Investigators &amp; Faculty Members in order</th>
<th>Percent Contribution</th>
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### 2020

**Making to Learn, Learning to Grow:** Robotics Laboratory as the Educational Infrastructure for Integrating Architecture and Technology

<table>
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<th>Status</th>
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<th>Amount $</th>
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<th>Percent Contribution</th>
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<tr>
<td>Pending</td>
<td>Reducing and preventing burnout of healthcare professionals through facility design</td>
<td>NIH, Centers for Disease Control and Prevention</td>
<td>$1,914,04</td>
<td>Lim, L. (Principal), Zook, J. (Other), Key, S. (Other), Yi, S. (Other), Stroebel, R. J. (Other), Moore, M. M. (Other), Jasperson, D. B. (Other), Zimring, C. (Other), Crews, J. (Other)</td>
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### 2019

**Breathing Territories**

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<tr>
<th>Year</th>
<th>Title of Current Research or Grant</th>
<th>Granting Agency</th>
<th>Amount $</th>
<th>Chief Investigators &amp; Faculty Members in order</th>
<th>Percent Contribution</th>
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<tbody>
<tr>
<td>2019</td>
<td>Breathing Territories</td>
<td>Taubman College of Architecture - University of Michigan</td>
<td>$20,000</td>
<td>Kripa, E. E. (Supporting)</td>
<td>25%</td>
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<td>2019</td>
<td>Prototyping Tomorrow / Breathing Territories</td>
<td>University of Michigan Taubman School of Architecture</td>
<td>$20,000</td>
<td>Mueller, S. (Supporting), Kripa, E. E. (Supporting), Thun, G. (Supporting)</td>
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### Ersela Kripa
Lisa Lim

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<th>Status</th>
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<tr>
<td>Pending</td>
<td>Reducing and preventing burnout of healthcare professionals through facility design</td>
<td>NIH, Centers for Disease Control and Prevention</td>
<td>$1,914,041</td>
<td>Lim, L. (Principal), Zook, J. (Other), Key, S. (Other), Yi, S. (Other), Dyrbye, L. N. (Other), Stroebel, R. J. (Other), Moore, M. M. (Other), Jasperson, D. B. (Other), Zimring, C. (Other), Crews, J. (Other)</td>
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<tr>
<td>Pending</td>
<td>Evaluation of clinic design as interventions for promoting teamwork experiences of staff and patient</td>
<td>NIH, Agency for Health Care Research and Quality</td>
<td>$99,230</td>
<td>Lim, L. (Principal), Stroebel, R. J. (Supporting), Jasperson, D. (Other)</td>
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<td>Learn Sustainable, Act Responsible: Building a Sustainability Culture in South Plains of Texas</td>
<td>CH Foundation</td>
<td>$83,466</td>
<td>Chang, J. (Principal), Lee, S. H. (Other), Lim, L. (Other), Chong, J. (Other)</td>
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<tr>
<td>Decline</td>
<td>Improving Health and Well-being of College Students Through Campus Design</td>
<td>Robert Wood Johnson Foundation</td>
<td>$480,000</td>
<td>Lim, L. (Principal), Shin, S. (Co-Principal)</td>
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### Victoria McReynolds

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<th>Percent Contribution</th>
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<tr>
<td>Pending</td>
<td>Fire in the Water, Earth in the Air: Climate Change on the Great American Plains</td>
<td>Buell Center + ASCA (Association of Collegiate Schools of Architecture)</td>
<td>$10,000</td>
<td>Raab, P. (Principal), McReynolds, V. (Co-Principal)</td>
<td>50%</td>
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<tr>
<td>Declined</td>
<td>Materials, Thermal Resonance + Imaging Laboratory.</td>
<td>Matejek Family Foundation</td>
<td>$10,000</td>
<td>Raab, P. (Principal), Key, S. (Supporting), McReynolds, V. (Supporting)</td>
<td>10%</td>
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<tr>
<td>Declined</td>
<td>Prospectus: The Los Fresnos Farmers Market &amp; Food Hub</td>
<td>Texas Tech University English Department</td>
<td>$9,700</td>
<td>Robledo, D. (Co-Principal), McReynolds, V. (Co-Principal)</td>
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### Kuhn Park

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<th>Amount $</th>
<th>Chief Investigators &amp; Faculty Members in order</th>
<th>Percent Contribution</th>
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<tr>
<td>Pending</td>
<td>Developing a Web-Based Virtual Reality and Augmented Reality for Increasing Cultural Awareness and Community Engagement in Lubbock</td>
<td>The CH Foundation</td>
<td>$32,446</td>
<td>Park, K. (Principal), Jung, K. (Co-Principal)</td>
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### Peter Raab

<table>
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<th>Status</th>
<th>Title of Current Research or Grant</th>
<th>Granting Agency</th>
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<tr>
<td>Pending</td>
<td>Fire in the Water, Earth in the Air: Climate Change on the Great American Plains</td>
<td>Buell Center + ASCA (Association of Collegiate Schools of Architecture)</td>
<td>$10,000</td>
<td>Raab, P. (Principal), McReynolds, V. (Co-Principal)</td>
<td>50%</td>
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<td>Status</td>
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<td>Granting Agency</td>
<td>Amount $</td>
<td>Chief Investigators &amp; Faculty Members in order</td>
<td>Percent Contribution</td>
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### Decline

| Material/Thermal Resonance + Imaging Laboratory | Matejek Family Foundation | $10,000 | Raab, P. (Principal), Key, S. (Supporting), McReynolds, V. (Supporting) | 80% |

### Ben Shacklette

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<th>Year</th>
<th>Title of Current Research or Grant</th>
<th>Granting Agency</th>
<th>Amount $</th>
<th>Chief Investigators &amp; Faculty Members in order</th>
<th>Percent Contribution</th>
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<tbody>
<tr>
<td>2019</td>
<td>The German Country Schools of Gillespie County, Texas</td>
<td>CH Foundation</td>
<td>$10,150</td>
<td>Shacklette, B. K. (Principal)</td>
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### Kristine Stiphany

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<th>Year</th>
<th>Title of Current Research or Grant</th>
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<th>Amount $</th>
<th>Chief Investigators &amp; Faculty Members in order</th>
<th>Percent Contribution</th>
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<tr>
<td>2019</td>
<td>Transforming Cities through Infrastructures - Interdisciplinary Collaborator</td>
<td>Utrecht University, the Netherlands</td>
<td>$20,000</td>
<td>Friendly, A. (Supporting), Stiphany, K. (Supporting), Oosterbaan, M. (Supporting), Otsuki, K. (Supporting)</td>
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### Status

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<td>Pending</td>
<td>IRES Track III Collaborative Research: Constructing Infrastructures for Resilience in Informal Settlements across the Americas</td>
<td>National Science Foundation</td>
<td>$441,176</td>
<td>Stiphany, K., Flueckiger, U. P. (Co-Principal), Sowell, J. (Co-Principal), Longnecker, W. (Supporting), Aquino, A. (Supporting)</td>
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<tr>
<td>Declined</td>
<td>Participatory Technologies for Designing Resilient Communities in West Texas</td>
<td>CH Foundation</td>
<td>$30,000</td>
<td>Stiphany, K.</td>
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<tr>
<td>Declined</td>
<td>Transbordering Architecture, Environments, and</td>
<td>The Graham Foundation</td>
<td>$30,000</td>
<td>Stiphany, K. (Co-Principal), Gonzalez, R. (Co-Principal), Zook, J.</td>
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Chris Taylor

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<th>Chief Investigators &amp; Faculty Members in order</th>
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<tr>
<td>2019</td>
<td>Operational support for Land Arts of the American West 2019</td>
<td>Andrea Nasher</td>
<td>$11,000</td>
<td>Taylor, C.</td>
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<td>2019</td>
<td>Land Arts of the American West Scholarships</td>
<td>James Family Foundation</td>
<td>$10,000</td>
<td>Taylor, C.</td>
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<td>2019</td>
<td>Terminal Lake Exploration Platform</td>
<td>Desert X</td>
<td>$25,000</td>
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Status

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<td>Pending</td>
<td>Situated Knowledge: Local Landscapes and Global Conditions</td>
<td>Texas Tech University Humanities Center</td>
<td>$35,000</td>
<td>Larson, S. (Co-Principal), Taylor, C(Principal), Wilkinson, K. (Co-Principal), Bauer, C. (Co-Principal)</td>
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Julie Zook

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<th>Year</th>
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<th>Chief Investigators &amp; Faculty Members in order</th>
<th>Percent Contribution</th>
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<tbody>
<tr>
<td>2017</td>
<td>Identity and Resistance in Global Contexts</td>
<td>Center for Global Communication, Texas Tech University</td>
<td>$49,036</td>
<td>Cattell, A. (Principal), Barba, S. (Co-Principal), Brinker, S. (Co-Principal), Hodes, J. (Co-Principal), Jonsson, A. (Co-Principal), Kleinmans, B. (Co-Principal), Wilkinson, K. (Co-Principal), Zook, J. (Co-Principal)</td>
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<td>Pending</td>
<td>Reducing and preventing burnout of healthcare professionals through facility design</td>
<td>NIH, Centers for Disease Control and Prevention</td>
<td>$1,914,041</td>
<td>Lim, L. (Principal), Zook, J. (Other), Key, S. (Other), Yi, S. (Other), Dyrbye, L. N. (Other), Stroebel, R. J. (Other), Moore, M. M. (Other), Jasperson, D. B. (Other), Zimring, C. (Other), Crews, J. (Other)</td>
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<tr>
<td>Declined</td>
<td>Practical Humanities Through Correctional Education</td>
<td>Helen Jones/CH Foundations</td>
<td>$31,431</td>
<td>Borshuk, M. (Co-Principal), Giemza, B. (Co-Principal), Whitney, A. (Co-Principal), Zook, J. A. (Co-Principal)</td>
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<tr>
<td>Declined</td>
<td>Animation and Patient-Centered Care</td>
<td>CH Humanities</td>
<td>$2,500</td>
<td>Zook, J., Maher, T.</td>
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<tr>
<td>Declined</td>
<td>Transbordering Architecture, Environments, and Epistemology</td>
<td>The Graham Foundation</td>
<td>$30,000</td>
<td>Stiphany, K. (Co-Principal), Gonzalez, R. (Co-Principal), Zook, J. n. (Other)</td>
<td></td>
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</table>

Cited Research in Peer-Reviewed/Referred venues

Chris Taylor


Cited Research in Media

Chris Taylor


coachella-valley/


