

ANDRZEJ ZARZYCKI

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Andrzej Zarzycki is an associate professor at the College of Architecture and Design in the New Jersey Institute of Technology (NJIT), teaching a broad range of building information modeling, interactivity and digital media courses. His research focuses on media-based environments with applications in gaming and mobile augmented reality as well as interactive and adaptive designs integrating embedded systems with distributed sensing (smart buildings and cities).

Andrzej is a founding Editorial Board member of *Technology | Architecture + Design* (TAD) journal [tadjournal.org] and the inaugural Executive Editor. TAD is the journal of the Association of Collegiate Schools of Architecture (ACSA) published by Taylor & Francis focused on advancing technology-based research in architecture and design. He is also a co-winner of SHIFTBoston Ideas Competition 2009 and a co-founder of TUTS (Tremont Underground Theatre Space) [the-tuts.org], a design initiative focusing on innovative adaptations of infrastructure into contemporary public spaces and on the integration of digital media technologies into urban life. Andrzej holds joint appointment with the New Jersey School of Architecture and the School of Art + Design, both at NJIT.

Previously, Andrzej has taught digital design studios and courses at Rhode Island School of Design (RISD), the Massachusetts Institute of Technology (MIT), and Korea Advanced Institute of Science and Technology (KAIST). This experience gave him an opportunity to work with a broad array of students in fields ranging from architecture, interior architecture and industrial design to digital media, engineering, and computer sciences.

Academic Experience

New Jersey Institute of Technology (NJIT), Newark, NJ Associate/Assistant Professor of Architecture, Tenured in June 2013	2008 - present
Massachusetts Institute of Technology (MIT), Cambridge, MA Visiting Associate Professor, School of Architecture	Fall 2014, Fall 2018
Korea Advanced Institute of Science and Technology (KAIST) Visiting Professor, Graduate School of Culture Technology	Spring 2017
Rhode Island School of Design (RISD), Providence, RI Lecturer and Studio Critic, Interior Architecture	2005 – 2008
Boston Architectural College (BAC), Boston, MA Studio Critic, Architecture	2003 - 2004

Professional Experience

Technomorphic Tremont Underground Theater Space (TUTS)¹	2004 – 2014
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Co-founder (Professional Practice)

Tsoi/Kobus & Associates (TK&A) 2000 - 2004
Senior Designer (Professional Practice)

The Ritchie Organization (TRO) 1994 - 1999
Senior Designer (Professional Practice)

Education

Massachusetts Institute of Technology, Cambridge, MA 1994
Master of Science in Architecture Studies (S.M.Arch.S.)

Royal Danish Academy of Fine Arts, Copenhagen, Denmark 1990-1991
Exchange Student, TEMPUS European Community Grant

Technical University of Gdansk, Gdansk, Poland 1992
Master of Architecture (M,Arch) , Mgr. Inż. Arch (Professional Architecture Degree)

Other Appointments

Technology | Architecture + Design (TAD) Journal, Executive Editor, 2016-2018
AIA's Higher Education Advisory Group (HEAG), 2018-2020
BTES (Building Technology Educators' Society) Director, Board of Directors, 2016-17
NYC ACM SIGGRAPH Chapter President
Chapter President, Director, Member of the Board of Directors, Association for Computing Machinery, Special Interest Group on Graphics and Interactive Techniques; 2010 -2016
BTES 2013 (Building Technology Educators' Society) Conference Co-Chair, July 2013
Form Z Joint Study Journal Guest Editor: "Digital Intentions, Explorations and Accidents"
2008

Licenses/Registration

Registered Architect, the State of New York, #035676

Selected Honors and Awards

Best Conference Presentation for *Video Game Narratives: Beyond the Gameplay*, CAADRIA 2015 Conference
SHIFT Boston 2009, Idea Design Competition Winner—First Place, in collaboration with Sapir Ng link: [shiftboston.org/ \[http://www.shiftboston.org/competitions/2009ideas_winners.html\]](http://www.shiftboston.org/competitions/2009ideas_winners.html)
PTFA Professional Development Grant for Interactive Spaces / Sensory Environments, Rhode Island School of Design, 2007.
The Gyeonggi-do Jeongok Prehistory Museum Design Competition, Korea, April 2006 – The Merit Award,
Defining the Authenticity in Architecture; Visual Essay on Time, Sense of Place, and Unavoidable ... Change. EDCO Research Grant, Boston Architectural College, May 2004
Designing the High Line Architectural Idea Competition; Jury Selection, New York, 2003,

Professional Organization Membership

ACADIA	the Association for Computer-Aided Design in Architecture
ACSA	Association of Collegiate Schools of Architecture
ACM SIGGRAPH	Association for Computing Machinery, Special Interest Group on Graphics and Interactive Techniques
BTES	Building Technology Educators' Society
CAADRIA	Association for Computer-Aided Architectural Design Research in Asia
eCAADe	Education and Research in Computer Aided Architectural Design in Europe

Recent Publications (Refereed)

- Zarzycki, A. and Decker, M., *Climate-adaptive buildings: Systems and materials*, in *International Journal of Architectural Computing (IJAC)*; vol. 17 - no. 2, 166-184; June 2019; doi: 10.1177/1478077119852707
- Zarzycki A., *Enhanced Building Services - Smart fixture case studies*. In: M. Haeusler, M. A. Schnabel, T. Fukuda (eds.), *Intelligent & Informed - Proceedings of the 24th CAADRIA Conference - Volume 2*, Victoria University of Wellington, Wellington, New Zealand, 15-18 April 2019, pp. 201-210
- Zarzycki A., *Strategies for the Integration of Smart Technologies into Buildings and Construction Assemblies*. In: Kepczynska-Walczak, A, Bialkowski, S (eds.), *Computing for a better tomorrow - Proceedings of the 36th eCAADe Conference - Volume 1*, Lodz University of Technology, Lodz, Poland, 19-21 September 2018, pp. 631-640
- Zarzycki A., *Mods, Hacks, Makers: Crowdsourced Culture and Environment*. In: Lee JH. (eds) *Computational Studies on Cultural Variation and Heredity*. KAIST Research Series. Springer, Singapore, April 18th, 2018; pp. 73-82; doi.org/10.1007/978-981-10-8189-7_6
- Jung G., Zarzycki A., and Lee JH, *Mom's tray: real-time dietary monitoring system*, *Proceedings of the SIGGRAPH Asia 2017 Mobile Graphics & Interactive Applications*, Bangkok, Thailand, November 27 - 30, 2017, Article No. 19, ISBN: 978-1-4503-5410-3 doi>10.1145/3132787.3139196
- Zarzycki A., *Engaging maker culture with digital prototyping*, *Proceedings of the SIGGRAPH Asia 2017 Symposium on Education* Article No. 8, Bangkok, Thailand, November 27 - 30, 2017, ISBN: 978-1-4503-5409-7 doi>10.1145/3134368.3139214
- Zarzycki A., *Augmented realty as virtual design interface*, *Proceedings of the SIGGRAPH Asia 2017 Symposium on Education* Article No. 14, Bangkok, Thailand — November 27 - 30, 2017, ISBN: 978-1-4503-5409-7 doi>10.1145/3134368.3139216
- Schwartz, M and Zarzycki, A, *The Effect of Building Materials on LIDAR Measurements*, Fioravanti, A, Cursi, S, Elahmar, S, Gargaro, S, Loffreda, G, Novembri, G, Trento, A (eds.), *ShoCK! - Sharing Computational Knowledge! - Proceedings of the 35th eCAADe Conference - Volume 2*, Sapienza University of Rome, Rome, Italy, 20-22 September 2017, pp. 269-276
- Zarzycki, A, *Embedded Building Components - Prototyping with Emerging Technologies*, Fioravanti, A, Cursi, S, Elahmar, S, Gargaro, S, Loffreda, G, Novembri, G, Trento, A (eds.), *ShoCK! - Sharing Computational Knowledge! - Proceedings of the 35th eCAADe Conference - Volume 2*, Sapienza University of Rome, Rome, Italy, 20-22 September 2017, pp. 337-344
- Zarzycki, A, and Decker, M. *Programmable buildings: architecture as an interaction interface powered with programmable matter*, *Proceeding SIGGRAPH '17 ACM SIGGRAPH 2017 Talks*, Article No. 49; Los Angeles, California — July 30 - August 03, 2017; doi>10.1145/3084363.3085164

- Zarzycki, A, *Prototyping Construction Assemblies with Emerging Technologies: An Educational Perspective*; Proceedings: Poetics and Pragmatism, **BTES 2017 Meeting**, Des Moines, IA; ©2017, Building Technology Educators' Society. ISBN: 978-0-9895980-2-6
- Schwartz, M and Zarzycki, A, *Efficacy of Localization Through Magnets Embedded in Infrastructure*, P. Janssen, P. Loh, A. Raonic, M. A. Schnabel (eds.), *Protocols, Flows, and Glitches - Proceedings of the 22nd CAADRIA Conference*, Xi'an Jiaotong-Liverpool University, Suzhou, China, 5-8 April 2017, pp. 735-744
- Zarzycki, A, *Integration of Embedded Systems into Building Assemblies*, in ACSA 105 Annual Conference Proceedings, Detroit, MI, March 2017.
- Zarzycki, A, *Enabled Users and Crowdsourced Culture*, in ACSA 105 Annual Conference Proceedings, Detroit, MI, March 2017.
- Zarzycki, A, *Mods, Hacks, Makers: Crowdsourced Culture and Environment*, in 2nd **CulturalDNA Workshop Proceedings**, Ji-Hyun Lee (ed), KAIST, Daejeon, South Korea, January 13th, 2017
- Zarzycki, A, *Augmented Cities: Revealed Narratives*, in **Crafting Spirituality, Workshop Presentation, ACM SIGGRAPH ASIA 2016**, December 05-08, 2016, Macao, ACM 978-1-4503-4549-1/16/12. <http://dx.doi.org/10.1145/2992135.2992137>
- Zarzycki, A, *Answering Questions with Questions: A Personal Take on Gödel's Incompleteness Theorem as It Relates to Architecture and Design*, in **Morphological Analysis of Cultural DNA; Tools for Decoding Culture-Embedded Forms**; Ji-Hyun Lee (ed), KAIST, Daejeon, South Korea; Springer 2016, ISBN 978-981-10-2329-3 pp.227-240 (book chapter, expanded workshop paper)
- Zarzycki, A, *Adaptive Designs with Distributed Intelligent Systems - Building Design Applications*; Herneoja, Aulikki; Toni Österlund and Piia Markkanen (eds.), **Complexity & Simplicity** - Proceedings of the 34th eCAADe Conference - Volume 1, University of Oulu, Oulu, Finland, 22-26 August 2016, pp. 53-58
- Kim, Jaehwan, Schwartz, Mathew and Zarzycki, Andrzej, *The Wave of Autonomous Mobility: Architecture Facilitating Indoor Autonomous Navigation*; Herneoja, Aulikki; Toni Österlund and Piia Markkanen (eds.), **Complexity & Simplicity** - Proceedings of the 34th eCAADe Conference - Volume 1, University of Oulu, Oulu, Finland, 22-26 August 2016, pp. 53-58
- Zarzycki, A, *Epic video games: Narrative spaces and engaged lives*, in **International Journal of Architectural Computing (IJAC)**; vol. 14 - no. 3, 201-211; August 17, 2016; doi:10.1177/1478077116663338 <http://jac.sagepub.com/content/early/2016/08/12/1478077116663338.full.pdf>
- Zarzycki, A, *Book Review: Birkhäuser Steel Design Series*; in **Journal of Architectural Education (JAE)** 70:2 October 2016; <http://www.jaeonline.org/articles/reviews-books/birkh%C3%A4user-steel-design-series#/page1/>
- Zarzycki, A, *Embedded and Interconnected Buildings: Toward Intelligent Architecture*, in **Shaping New Knowledges**, ACSA 104 Conference Proceedings, Seattle, WA, March 2016.
- Zarzycki, A, *Answering Questions with Questions: A Personal Take on Gödel's Incompleteness Theorem as It Relates to Architecture and Design*, in **CulturalDNA Workshop Proceedings**, Ji-Hyun Lee (ed), KAIST, Daejeon, South Korea
- Zarzycki, A, *Augmented Cities: Revealed Histories*, in **Envisioning Architecture: Image, Perception and Communication of Heritage - Proceedings of the 12th the European Architectural Envisioning Association (EAEA) Conference**, Anetta Kępczyńska-Walczak (ed.), - Lodz University of Technology, Lodz, Poland, 23-26 September 2015, pp. 484-492
- Zarzycki, A, *Media Landscapes: Agents, Identities, and Connectivity*, in **Real Time - Proceedings of the 33rd eCAADe Conference**, Martens, B, Wurzer, G, Grasl T, Lorenz, WE and Schaffranek, R (eds.), - Volume 1, Vienna University of Technology, Vienna, Austria, 16-18 September 2015, pp. 511-516

- Zarzycki, A, *Video Game Narratives: Beyond the Gameplay*; in **Emerging Experience in Past, Present and Future of Digital Architecture, the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) Conference Proceedings**, Y. Ikeda, C. M. Herr, D. Holzer, S. Kaijima, M. J. Kim, M. A. Schnabel (eds.) Daegu, South Korea, May 2015
- Zarzycki, A, *Augmenting Design Curriculum with Location-Aware Technologies*; in **EUROGRAPHICS 2015 Conference Proceeding**; / M. Bronstein and M. Teschner, May 2015
- Zarzycki, A, *Towards new Mediapolis: networks, identities, and agents*; in **Architectural Science Review**; 24 Mar 2015 [DOI:10.1080/00038628.2015.1015949]
- Zarzycki, A, *Teaching and Designing for Augmented Reality*; Thompson, Emine Mine (ed.), **Fusion - Proceedings of the 32nd eCAADe Conference - Volume 1**, Department of Architecture and Built Environment, Faculty of Engineering and Environment, Newcastle upon Tyne, England, UK, 10-12 September 2014, pp. 357-364
- Decker, M, Zarzycki, A, *Designing Resilient Buildings with Emergent Materials*; Thompson, Emine Mine (ed.), **Fusion - Proceedings of the 32nd eCAADe Conference - Volume 2**, Department of Architecture and Built Environment, Faculty of Engineering and Environment, Newcastle upon Tyne, England, UK, 10-12 September 2014, pp. 179-184
- Zarzycki, A, *Reflections on Computational Design through Interactions with Materiality and Physical Mock-ups*, ed. Marc J. Neveu, **Journal of Architectural Education (JAE)**, Volume 68, Issue 1, March 2014, pp. 94-103
- Zarzycki, A, *Considering Physicality in Digital Models*, Stouffs, Rudi and Sariyildiz, Sevil (eds.), **Computation and Performance – Proceedings of the 31st eCAADe Conference – Volume 2**, Faculty of Architecture, Delft University of Technology, Delft, The Netherlands, 18-20 September 2013, pp. 425-434
- Zarzycki, A, *Integrating Physical and Digital Assemblies*, ed. Jose Kos and Daniel Cardoso in **International Journal of Architectural Computing (IJAC)**, Volume 11, Issue 2, pp. 247-266
- Zarzycki, A, *Exploring Adaptive Designs with Physical and Digital Prototyping*, in **Tectonics of Teaching, Building Technology Educators' Society (BTES) Conference Proceedings**, Bristol, RI, USA, July 2013
- Zarzycki, A, *Learning with Digital and Physical Mock-ups Using BIM*; in **Open Systems, the Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) Conference Proceedings**, Singapore, Singapore, May 2013
- Zarzycki, A, *Mediated and Situated Landscapes*; in **New Constellations / New Ecologies, ACSA101 Annual Conference Proceedings**, San Francisco, CA. March 2013
- Zarzycki, A, *Urban Games: Application of Augmented Reality*; Symposium on Apps in **ACM SIGGRAPH Asia, 2012 Proceedings**, Singapore, Singapore, 2012
- Zarzycki, A, *Component-based Design Approach Using BIM*; in **Digital Physicality, eCAADe Conference Proceedings**, Prague, Czech Republic, September 2012. pp 67-76
- Zarzycki, A, *Urban Games: Inhabiting Real and Virtual Cities*; in **Digital Physicality, eCAADe Conference Proceedings**, Prague, Czech Republic, September 2012. pp 755-764
- Zarzycki, A, *Urban Games: Convergence of Physical and Virtual*; in **1-ICAUD Conference Proceedings**, Tirana, Albania, April 2012. pp 667-674
- Zarzycki, A, *Parametric BIM as a Generative Design Tool*; in **Digital Aptitudes, ACSA 100 Conference Proceedings**, Boston, MA, March 2012. pp 752-762
- Zarzycki, A, *Creativity with ARTags; a Mobile Augmented Reality App for Android*; in **ACM SIGGRAPH Asia 2011 Conference Proceedings**, Hong Kong, China, App Symposium.
- Zarzycki, A, *Mediated Lives*; in **Respecting Fragile Places, eCAADe Conference Proceedings**, Ljubljana, Slovenia, September 2011. pp 925-934

- Zarzycki, A, *Exploring Parametric BIM as a Conceptual Tool for Design and Building Technology Teaching*; in **Convergence + Confluence, BTES The Building Technology Educators' Society Conference Proceedings**, Toronto, Ontario, August 2011. Pp.85-93
- Zarzycki, A, *Form-Making without Form Making*; in **Parametricism: SPC, ACADIA Regional Conference Proceedings**, University of Nebraska, Lincoln, Nebraska, March 2011.
- Zarzycki, A, *Unusual Encounters: the Use of Special Effects Tools as Design Generators*; in **ACSA Annual Conference Proceedings**, Montreal, Canada, March 2011.
- Zarzycki, A, *Feeling Before Knowing: Form-Making with the Use of Digital Simulations*; in **Creating_Making Conference Proceedings**, University of Oklahoma, November 2010.
- Zarzycki, A, *Media Facades and Mobile Devices; New Urban Identity*; in **ACSA Northeast Regional Conference Proceedings**, October, 2010.
- Zarzycki, A, *BIM as Design Exploration Tool in Architecture*; in **Engineering Education for the Digital Generation**; Proceedings; Northeast regional ASEE (American Society of Engineering Education) conference, May 2010.
- Zarzycki, A, *First Year Experience for Digital-Native Students*; in **Engineering Education for the Digital Generation**; Proceedings;_Northeast regional ASEE (American Society of Engineering Education) conference, May 2010.
- Zarzycki, A, *Form-Making with Special Effect Simulation*; in **Engineering Education for the Digital Generation**; Proceedings; Northeast regional ASEE (American Society of Engineering Education) conference, May 2010.
- Zarzycki, A, *Designing Curriculum for Digital-native Architecture Students*; in **Engineering Education: Global Challenges, Local Solutions**; Proceedings;_American Society of Engineering Education (ASEE) Regional Conference, April 2010.
- Zarzycki, A, *Intuitive Structures: Applications of Dynamic Simulations in Early Design Stage*; in **SimAUD 2010 Proceedings**, April 2010.
- Zarzycki, A, *Exploring Parametric BIM as a Conceptual Tool for Design and Building Technology Teaching*; in **SimAUD 2010 Proceedings**, April, 2010.
- Zarzycki, A, *Dynamics-Based Tools: an Unusual Path to Design Integration*; in **SIGGRAPH 2009 Asia Proceedings (Educator Session)**, December, 2009.
- Zarzycki, A, *Formal Mutations: Pursuing Unintended Consequences*; in **SIGGRAPH 2009 Asia Proceedings (Sketches)**, December, 2009.
- Zarzycki, A, *Expressive and Efficient Structures: digital simulations with physically-based dynamics tools*; in **BTES 2009 Proceedings**, August 2009.

Selected Publications (Invited)

- Zarzycki, A, *Zen of Python: Principle 8*; in **Technology|Architecture + Design**, 2:2, 123 (2018) <https://doi.org/10.1080/24751448.2018.1497353>
- Zarzycki, A, *Describe, Explain, and Predict*; in **Technology|Architecture + Design**, 2:1, 1 (2018) <https://doi.org/10.1080/24751448.2018.1420955>
- Zarzycki, A, *The Mirror Stage*; in **Technology|Architecture + Design**, 1:2, 127 (2017) <https://doi.org/10.1080/24751448.2017.1354599>
- Brause,C., Ford,C., Olsen,C., D'Agostino Ripple, J., Uihlein, M. S., & Zarzycki, A, *Why TAD?*; in **Technology|Architecture + Design**, 1:1, 1-2; <http://dx.doi.org/10.1080/24751448.2017.1292784>
- Zarzycki, A, *Overcoming HTTP404*; in **Technology|Architecture + Design**, 1:1, 3-4 (2017) <https://doi.org/10.1080/24751448.2017.1292785>
- Goldman, G, Zarzycki, A, *Smart Buildings/Smart(er) Designers: BIM and the Creative Design Process*; (book chapter) in **Building Information Modeling: BIM in Current and Future Practice**, ed. Karen M. Kensek and Douglas, E. Noble, Wiley 2014, pp.3-16
- Zarzycki, A, *Digital Object*; in **Architecture Boston**, Boston, MA, November 2011, p.68
- Zarzycki, A, *Wall to Wall: The Digital Landscape*; in **Architecture Boston**, Fall 2010, pp. 28-31

Research Proposals

- Zarzycki, A, Wei, Z, *Interconnected and Autonomous Building Assemblies*, **NJIT's Faculty Seed Grant**, Awarded \$10,000, October 2015
- Federici, J, Bunker, D, Michalopoulou, Z, Gatley, I, Decker, M, Zafar, I, Zarzycki, A, Longo, B, Briller, V, *NRT: Sustainable Environment Sensing Research and Training Center*, **NSF**, June 2014
- NJ MarketShift: A New Jersey Proposal for Community Economic Adjustment*, Department of Defense (**DoD**) Office of Economic; PI: Timothy V. Franklin, served as Investigator as technical faculty VIS team member with four other colleagues. Overall grant \$5.67M for 18 months, July 2014
- Intel® Galileo microcontroller and sensor grant* by Intel Higher Education, \$2000 value, February 2014
- Russell, G, Bunker, D, Zarzycki, A, MacIntyre, B, Narahara, T, *Collaborative Research: CyberSEES: Type 1: Unmasking the Hidden Webs of Life: Persuasive Technology for Environmental Awareness*; (**NSF 13-500 Proposal, 2013**)

Selected Academic and Professional Presentations (conference paper presentations are listed as part of paper publication)

- AIA Conference on Architecture 2019**, *Architectural Research: Designing Your Research Project* (Workshop, co presenters: Tom Fisher, Marci Uihlein, and Hazam Rashed Ali) June 5th 2019
- Defining Your Research Workshop @ACSA Annual Conference**, March 28th, 2019
- AIA Collaborative Research Summit**, Presenter/Panelist in *Smart Cities Panel*, July 24th 2018
- AIA Conference on Architecture 2018**, *Architectural Research 101: What, How & Why?* (Workshop, co presenters: Tom Fisher, Marci Uihlein, and Jason Vollen) June 20th 2018
- Design-Build Exchange (dbX) Meeting @ACSA Annual Conference**, March 16th, 2018
- Defining Your Research Workshop+Webinar Series @ACSA Annual Conference**, March 15th, 2018
- Round-Table Discussion: Strengthening Research and Practice Partnerships**
Sponsored by AIA in partnership with *TAD Journal*; BTES 2017 Conference, Des Moines Public Library, Des Moines, IA; June 9th 2017
- Digital Media + Built Environment**; Graduate School of Culture Technology (GSCT), Korea Advanced Institute of Science and Technology (KAIST). Presentation discussed an integration of digital media technologies within built environment, with particular focus on embedded systems—smart environments. KAIST, Daejeon, South Korea, May 22nd, 2017
- Prospective Author Session for the journal of Technology | Architecture + Design**;
Moderated by: Clare Olsen, Cal Poly, San Luis Obispo & Andrzej Zarzycki, New Jersey Institute of Technology; ACSA 2017 Annual Meeting Special Focus Session, March 2017
- Architectural Publishing Panel**: Marc Neveu (*JAE Editor*), Andrzej Zarzycki (*TAD Editor*), Diego Grass (*OnArchitecture*), Claire Zimmerman (publishing author and University of Michigan Faculty); Shared session with ACSA — A panel discussion about the current state of publishing in general and of architectural publishing in specific. Association of Architecture School Librarians (AASL) 2017 Annual Meeting, Detroit, MI, March 2017
- TECHNOLOGY | ARCHITECTURE + DESIGN** (*BTES focus Session during ACSA 104 Conference in Seattle, WA, March 2016*) Moderator: Robert J. Dermody, Roger Williams University. A presentation of Technology | Architecture + Design, a new peer-reviewed international journal dedicated to the advancement of scholarship in the field of building

technology, with a focus on the impact, translation and integration of technology in architecture and design

STEAM: Science, Technology and the Future of Performance, *Extended Selves*; The McCarter Theater (Princeton University), College of Architecture and Design, College of Science and Liberal Arts, Theatre Arts and Technology (NJIT) speaker panel discussion and presentations (November 12, 2015)

Advanced Institutes of Convergence Technology (AICT) in Suwon, South Korea; Guest Speaker/Presentation at the Digital Human Research Center (DHRC) titled *Applied Creativity and Innovative Engineering*; focused on the role of creativity and innovation in the advancement of convergent research in the areas of smart technologies. May 18th, 2015

CAADRIA 2014 Workshop: *Adaptive Designs Powered with Programmable Matter*; in collaboration with Martina Decker, NJIT, May, 2014.

ACM SIGGRAPH Asia 2013 Course: *Computing with Matter*; in collaboration with Martina Decker, NJIT, November, 2013.

BIM Futures, *Smart Buildings/Smart(er) Designers: BIM and the Creative Design Process*, Guest Speaker, July 15th, 2013, (<http://arch.usc.edu/calendar/bim-futures-2013>)

CAADRIA 2013 Workshop: *Open Robotic Systems for Adaptive Buildings*; in collaboration with Taro Narahara (NJIT) and Jae Wan park, May, 2013

NJ SIM Day at NJIT, New Jersey Industry Leaders Meeting: *Mobile Augmented Reality*, guest speaker March 14th, 2013

AIA New Jersey Spring Symposium: *Distributed Intelligence: Embedded Knowledge and Situated Designs: Applications of Augmented Reality*; Guest Speaker, NJIT, Newark, NJ, March, 6th, 2013

ACM SIGGRAPH Asia 2012, App Symposium; *Urban Games: Application of Augmented Reality*

Suffolk University: Future Investors in Real Estate F.I.R.E. Guest Speaker for club on *Development of Abandoned Subway Tunnels in Boston*, April 12th,

NJIT 2012 Innovation and Collaboration Research Showcase: *Web2.0 to Design2.0 + Parametric BIM* presenter: (*Current Research*), March 7th, 2012

Think Pieces: *Web2.0 to Architecture2.0*; Guest Speaker, "College of Architecture and Design Public Lecture, NJIT, Newark, NJ, Feb, 22, 2012

ACM SIGGRAPH Asia 2011, App Symposium: *Creativity with ARTags; a Mobile Augmented Reality App for Android*

ACM SIGGRAPH 2011 Talk: *Designing With Constraints: Parametric BIM*; Vancouver, British Columbia, August 11th, 2011 (published abstract)

ACM SIGGRAPH 2011 Talk: *Form-Making With Special Effect Tools*; Vancouver, British Columbia, August 11th, 2011 (published abstract)

Creating_Making Forum: *Conference Closing Panel Discussion*, Panelist, November, 2010

Autodesk -- Revit Development Team: *Current BIM Research*; presenter May 27th, 2010

Wentworth Institute of Technology: *Sub-Metropolis*; Public Lecture Guest Speaker, March 29th, 2010

Selected General Public Presentations

Bergen County Academies, *Career Day*; Guest Speaker, February 10th, 2015

Bergen County Academies, *Print Week*; Guest Speaker, Jan 15th, 2015

The Newark Museum, *Mini Maker Faire*; Community Outreach Event, Workshop organizer and presenter, April 5th, 2014

Common Boston 2012: *The Collaborative Nature of Public Space Downtown (with Mystery Spaces App!)*; Urban Festival Event Co-organizer, June 16th, 2012; The Collaborative

Nature of Public Space Downtown (with Mystery Spaces App!);
<http://commonboston.org/the-collaborative-nature-of-public-space-downtown/>

The Callie Crossley Show, WGBH Boston *Tunnel Visionaries*; Interview with Sapir Ng and Andrzej Zarzycki (Public Radio Station), April 26th, 2012:

[<http://www.wgbh.org/programs/The-Callie-Crossley-Show-855/episodes/Thu-42612Tunnel-Visionaries-38133>]

Pecza Kucza 19 Boston: *Tremont Underground Theater Space (TUTS)*; Guest Speaker, September 27th, 2010

Common Boston 2010: *Tremont Underground Theater Space (TUTS)*; Guest Speaker, June 20th, 2010

Citizen's Committee for Boston's Future: *Tremont Underground Theater Space (TUTS)*; Guest Speaker, June 10th, 2010

Pecza Kucza Boston: *Tremont Underground Theater Space (TUTS)*; Guest Speaker, February 24, 2010,

Selected Media Citation

Will these abandoned T tunnels be turned into tourist attractions? **Metro Boston**; April 23, 2012 by Ateve Annear; <http://www.metro.us/boston/local/article/1141187--architects-push-new-underground-t-project-forward>

Abandoned MBTA Tunnels: A New Space for Art Galleries? **Gibson Sotheby's International Realty**; January 12, 2012 by Ed Godbois; www.gibsonsothebysrealty.com/blog/2012/01/12/abandoned-mbta-tunnels-a-new-space-for-art-galleries/

Local Architects Hope to Turn the MBTA's Hidden Tunnels Into an Interactive Gallery. **BostInno**, December 20th, 2011 by Lisa DeCanio; bostinno.com/2011/12/20/local-architects-hope-to-turn-the-mbtas-hidden-tunnels-into-an-interactive-gallery/

Architects want to turn T tunnels into thriving attractions, **Metro Boston**, by Steave Annear, December 19; www.metro.us/boston/local/article/1054501--architects-want-to-turn-t-tunnels-into-thriving-attractions

The Fantastic and the Constructible, **Joint Study Journal 17** (Partnership in Learning) Guest Editor Kevin A. Cespedes, A Conversation with Mitch Joachim and Andrzej Zarzycki, , October 2010, pp.72-82

From underground to over the river, these land-use designs go the limit; **Boston Business Journal**; October 2010, <http://www.bizjournals.com/boston/stories/2010/04/26/focus2.html>

Fantasy Places • Imaginations compete to create the ultimate in public spaces and assure a city that cutting-edge design is in its future; **Design New England**, March/April 2010, by Regina Cole <http://digital.designnewengland.com/designnewengland/20100304?pg=113#pg113>

Designs on Future; **Boston Herald**, Business Today Section, p.24, January 18th, 2010, also link: http://www.bostonherald.com/business/business_markets/2010/01/designs_future

Media Contributions: Interviews

The Callie Crossley Show, WGBH Boston (Public Radio Station): *Tunnel Visionaries*; Interview with Sapir Ng and Andrzej Zarzycki, April 26th, 2012

Form Z Joint Study Journal: *The Fantastic and the Constructible*; 2008-2010, A Conversation with Mitch Joachim and Andrzej Zarzycki, pp.72-82.

Boston Globe: *Designers dream up underground arts space*; April 1st, 2010, Interview with SHIFTBoston design competition winners Sapir Ng and Andrzej Zarzycki
www.boston.com/lifestyle/articles/2010/04/01/an_underground_arts_space_fits_to_the_t/

Selected Academic and Professional Service (outside home institution)

ACADIA 2017 Hackathon: Juror, VR and AR hackathon focusing on the future of architectural and design presentations: 2017.acadia.org/hackathon.html

Session Chair: BTES 2017, BTES 2013, ACSA 2017

Conference Organizer: BTES 2014

Scientific Committee: BTES 2017, BTES 2019, SimAUD 2019, Building Performance 2018

Global Game Jam; Organizer for the Northern New Jersey site 2011-2017, intra-disciplinary two-day event in the game development; Coordinator for the Mid-Atlantic states acting on the behalf of International Game Developer Association (IGDA) (2015, 2014)

Regional Organizer 2017-2019

Peer Reviewer: ACADIA, ACM SIGGRAPH, ACSA, BTES, CAADRIA, eCAADe, CAADfutures, Design-build Exchange (dbX) conferences, and Journal of Architectural Education (JAE), Architectural Science Review (ASR) journals. Research proposal reviewer for Fulbright Program and the Israeli Ministry of Science, Technology and Space Grant Program

Guest Critic: MIT, RISD, KAIST

Projects and Products

Mystery Spaces mobile augmented reality app development and used for public events such as Common Boston 2012, www.layar.com/layers/mysteryspaces/

¹ www.the-tuts.org