

Yamaguchi Center for Arts and Media [YCAM] Research and Development

Guest Research Project vol .3

Researcher: Reza Ali

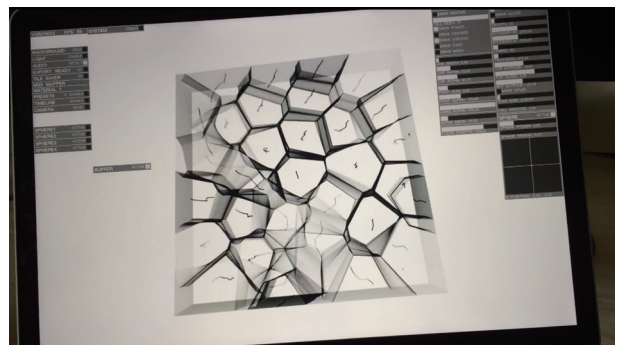
Residency period: December 2015 – February 2016)

Third series of the Guest Research Project aims to stimulate the community's creative work with media.

The Yamaguchi Center for Arts and Media [YCAM] is currently implementing the Guest Research Project, for which engineers and researchers working on the cutting edge of media art are invited to participate in joint research and development activities together with members of the "YCAM InterLab", YCAM's in-house team of specialist in this field.

For this third installment, we invited San Francisco-based computational designer/engineer Reza Ali to conduct research on web based 3D design tools, interfaces, algorithms, and to produce a library that will encapsulate his research at YCAM.

In recent years 3D printing technology has become ubiquitous thanks to open source research developments and the maker movement. Further, digital fabrication technologies and their interfaces are rapidly evolving and becoming common tools in the field of media art. This guest research project will explore how generative and parametric techniques can be applied to 3D form making. In addition, the project will produce free web based tools for exploring computational design. This project aims to advance the field of computational design and digital fabrication by open sourcing algorithms in the field of computational geometry.



Above : Voronoi Puzzle add interface
Below : "Paper Galaxy" workshop (2014)

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Profile

**Reza Ali**

Reza Ali is a computational designer, researcher, and engineer. His work is centered around geometry, robotics, 3D printing, dynamical systems, interfaces, software, the web, and product design (hardware + software + form). He uses technology (code, form and electronics) to express himself. His projects manifest themselves as either visual art, hardware, 3D prints forms, video, interactive installations, applications and websites. Reza is interested in the ideas and implications of his projects, tools, and way of working. As a researcher, he is passionate about solving complex problems by creating new technologies and open sourcing them to allow others to utilize his work to build the future. Through his projects, Reza explores the feedback cycle that occurs when custom tools are written to accomplish a project / product, and how those tools can enable work to go beyond what the designer had originally envisioned. He hopes to change the world by making a difference in how people use technology, design products and experience media.

Event Outline

Guest Research Project vol.3**Researcher: Reza Ali****Residency period: December 2015 – February 2016**

Organized by: Yamaguchi City Foundation for Cultural Promotion
In association with: Yamaguchi City Board of Education
Supported by: the Agency for Cultural Affairs Government of Japan in the fiscal 2015
Co-developed with: YCAM InterLab
Produced by: Yamaguchi Center for Arts and Media [YCAM]

Related Exhibition

Reza Ali Research Showcase

December 19 (Sat.), 2015 - February 21 (Sun.), 2016 10:00-20:00
Yamaguchi Center for Arts and Media [YCAM], Gallery 1 (in front of the elevator next to the library)

Workshop participation**LET'S MAKE THINGS WORKSHOP**

We will be holding a workshop dedicated to exploring new ways of designing 3D objects in the browser. The workshop will be lead by Reza Ali.

Date: February 11 (Thu)**Time: 2 p.m - 4 p.m****Admission: Free (reservation required, first-come-first-served)****Target: High school and above****Max. number of participants: 15**

Please make your reservation by email to reserve@ycam.jp, indicating the date and name of the event you wish to participate in, as well as your address, name, sex, age and contact information (phone number), or directly at the YCAM Ticket Information counter. Reservations close one day prior to the event.