GSAPP Fall 2014 - VISUAL STUDIES WORKSHOPS

Laura Kurgan - Director of Visual Studies ljk33@columbia.edu
Josh Uhl - Coordinator of Visual Studies jdu1@columbia.edu

Session A: A4715 - Re-Thinking BIM

John Lee and Brian Lee Thursday 5-7pm 202 Fayerweather

What is the place of BIM in architecture? Is it only meant for production, or can architectural design benefit from the real time feedback of Building Information Models. BIM can, and will change the profession--this generation is responsible for how that will be. Not having to deal with professional demands, students in this course will be able to explore BIM strategies which in the workplace are not possible. These virtual buildings are requiring that architects be extensively aware of all aspects of design. The intention of this workshop will be to develop a thorough understanding of BIM, most importantly how can we intervene in the BIM process to not let it be strictly about efficiency, but instead utilize its capabilities as opportunities for design. How is the time gained from these tools re-appropriated? How can the concepts of parametric modeling infiltrate, magnify, and redefine the design process? Using software that forces rigor, can we learn from it and re-apply those logics to other aspects of what we do?

Often out of familiarity, Architects favor one design medium over another. This workshop will insist on interoperability between various platforms, magnifying the strengths of each tool. We will investigate the process of integrating multiple parametric platforms simultaneously into a single architectural project. Students will use Autodesk Revit, Autodesk Vasari, 3DS Max, Rhinoceros and associated plugins, to create a parametric architectural system with embedded variability. A direct relationship with Autodesk has been established which allow for an exchange with the software developer.
Requirements:

- Intermediate knowledge of at least one or preferably two other 3dmodeling programs
- Attendance of lecture and tutorials
- Tutorial assignments(6)
- Individual projects(1)

Schedule:
WEEK 01 (09/05) - Lecture // BIM & Parametric Relationships, Project Introduction
WEEK 02 (09/12) - Lecture // Basic Revit Tools
WEEK 03 (09/19) - Lecture // Custom Component & Design Options, Project Proposal
WEEK 04 (09/26) - Lecture // Adaptive Components, Nesting, and Panelization
WEEK 05 (10/03) - Lecture // Advanced Panelization
WEEK 06 (10/10) - Lecture // Data Management, Documentation, Rendering & Viz
WEEK 07 (10/17) - Help Session // Desk Crit