# Andrew Madl

Assistant Professor
**School of Landscape Architecture, College of Architecture and Design**
**University of Tennessee, Knoxville**

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## _Education

**2017    Harvard University Graduate School of Design**
    Department of Landscape Architecture
    Master in Landscape Architecture II (MLA II)
    Post-Professional Degree

**2015    The Pennsylvania State University**
    Stuckeman School, College of Arts & Architecture
    Bachelor of Landscape Architecture
    Minor in Environmental Inquiry

## _Academic Appointments (full time)

2017-    Lecturer/Adjunct Assistant Professor, School of Landscape Architecture
2023     University of Tennessee, Knoxville

2023-    Assistant Professor (Tenure Track), School of Landscape Architecture
         University of Tennessee, Knoxville

## _Courses Taught
    - - -University of Tennessee Knoxville - - -

    *All Courses Individually Taught and Designed Unless Specified

2017FA    LAR555/ARCH583/ARCH496(Design Studio V): Urban Infrastructure (6 credits)
          LAR571(Seminar): Landform & Hydrology (4 credits)

2018SP    LAR552(Design Studio II): (Urban) Space, Form, Program (6 credits)
          LAR572(Seminar): Materials & Construction I (3 credits)

2018FA    LAR555(Design Studio V): Urban Infrastructure (6 credits)
          LAR571(Seminar): Landform & Hydrology (4 credits)

2019SP    LAR552/IARC474(Design Studio II) :(Urban) Space, Form, Program (Co-taught with Matt Rauch) (6 credits)
          LAR572(Seminar): Materials & Construction I (3 credits)

2019FA    LAR555(Design Studio V): Urban Infrastructure (6 credits)
          LAR571(Seminar): Landform & Hydrology (4 credits)

2020SP    LAR552(Design Studio II) :(Urban) Space, Form, Program (6 credits)
          LAR525(Seminar): Special Topics Simulation + Computation + Coding (3 credits)
          LAR598(MLP/'Thesis'): Dustin Toothman MARCH/MLA (6 credits)

2020FA    ARCH474(Design Studio): Advanced Architecture Design/Landscape Architecture I (6 credits)
          LAR571(Seminar): Landform & Hydrology (4 credits)

2021SP    LAR552(Design Studio II) :(Urban) Space, Form, Program (6 credits)
          LAR572(Seminar): Materials & Construction I (3 credits)

ARCH598(MAP/'Thesis'): Will Wright MLA/MARCH (6 credits)
LAR 593 (2nd session): Computational Fluid Dynamics, Urbanism and Computation (3 credits)

2021SU    Summer Design Camp University of Tennessee Knoxville College of Architecture and Design (Co-taught with Jeremy Magner)

2021FA    LAR555(Design Studio V): Urban Infrastructure (6 credits)
LAR571(Seminar): Landform & Hydrology (4 credits)
LAR580(MLP/'Thesis Prep'): Marilyn Reish MLA (3 credits)

2022SP    LAR552/ARCH475(Design Studio III):  Space, Form, Program (6 credits)
LAR572(Seminar): Materials & Construction I (Co-taught with Scottie McDaniel) (3 credits)
1/3 of LAR522: Design Communications II (Co-taught with Scottie McDaniel) (3 credits)
LAR598(MLP/'Thesis'): Marilyn Reish MLA (6 credits)
ARCH493(Independent Study): Mapping, Computation, Simulation (3 credits)

2022FA    LAR555(Design Studio V): Territorial Systems (6 credits)
LAR571(Seminar): Landform & Hydrology (4 credits)
LAR580(MLP/'Thesis' Prep): Kelsey Jones MLA (3 credits)

2023SP    LAR552(Design Studio II): Space & Form (6 credits)
LAR572(Seminar): Materials & Construction I (3 credits)
LAR598(MLP/'Thesis'): Kelsey Jones MLA (6 credits)

## Thesis Advising

2018    UTK Architecture Graduate Thesis Committee Member_Student: Summer Abston
2020    UTK Landscape/Architecture Graduate Thesis Committee Member_Student: Danny Rose
2020    UTK Landscape/Architecture Graduate Thesis Committee Chair_Student: Dustin Toothman
2021    UTK Landscape/Architecture Graduate Thesis Committee Chair_ Student: Will Wright
2021    UTK Architecture Thesis Committee Member_Student: Matt Crow
2021    UTK Architecture Thesis Committee Member_Student: Linden Claytor
2022    UTK Master of Landscape Project/Thesis Committee Chair_Student: Marilyn Reish
2023    UTK Master of Landscape Project/Thesis Committee Chair_Student: Kelsey Jones

## Student Recognition/Awards

2021    UTK EURēCA Competition (Exhibit of Undergraduate Research and Creative Achievement)
Award of merit: Kari Essary and Aubrey Bader_ Faculty Mentor Andrew Madl

## Teaching Recognition/Awards

2023    UTK College of Architecture + Design_H. Patrick Lawson Teaching Award


# _University/College Service

## University of Tennessee, Knoxville, School of Landscape Architecture

2022    Fellowship Search Committee
2019-    Admissions Committee
2018-    Awards Committee
2018-    Curriculum Committee
2018-    Program Committee
2018    Landscape Architectural Accreditation Board (LAAB)_Documentation Creation, Preparation, and Exhibit Design + Installation
2019    School Invitation to UTK GIS Day_ Organization, Preparation, and Display
2022    SACs Report (Southern Association of Colleges and Schools Commission on Colleges)_Document Information/ Data Creation
2022-    School of Landscape Architecture Instagram Curation + Content Generation
2017-    Organizing and Digital Workshops for Incoming MLA Design 'Bootcamp'

## University of Tennessee, Knoxville, College of Architecture + Design

2018-    Space and Technology Committee
2022
2020-    Lectures and Exhibit Committee
2021

University of Tennessee, Knoxville

2022-    AI Visioning Working Group_ AI TENNessee Initiative


## _Graduate Students Supervised
Graduate Research Assistants, Supervised students on various research projects with expectation of 10hrs per work each week

2017FA    Kyra Wu
2018SP    Breanna Browning
2018FA    Dylan Bagnasco
2019SP    Kyle Truax
2019FA    Kerri Nickel
2021FA    Stormie Tibbs
2022SP    Samin Saboor Rooh Mofrad
2022FA    Martí Roca Busacker
2023SP    Martí Roca Busacker


## _Invited External Critic
2017    Illinois Institute of Technology, School of Landscape Architecture + Urbanism
2018    Illinois Institute of Technology, School of Landscape Architecture + Urbanism
2020    University of Westminster, Master of Architecture Design Studio 18


## _Workshops

2023SP    Blender Animation, Simulation, and Rendering Workshop_ UTK LAR522 Design Communications II (Scottie McDaniel)
2022FA    Blender Rendering and Material Mapping Workshop_ UTK LAR521 Design Communications I (Gale Fulton)
2022SP    Blender Animation, Simulation, and Rendering Workshop_ UTK LAR522 Design Communications II (Scottie McDaniel)
2021SP    Data Visualization and Grasshopper Workshop_ UTK 3$^{rd}$ yr. Interior Architecture Studio (Liz Teston)
2020SP    Blender Rendering and Material Mapping Workshop_ UTK LAR522 Design Communications II (Scottie McDaniel)
2019SP    GIS/ArcMap Cartographic Workshop_ UTK Architecture/Interior Architecture Option Studio (Liz Teston)
2018SP    Grasshopper Workshop (Climate Analysis)_ UTK LAR535 Operative Landscapes (Brad Collett)
2016SU    Grasshopper Workshop_ Stephen Stimson Associates (SSA)


## _Publications/Featured Work

### Publications

2021    Madl, A. (2021) Parametric Design for Landscape Architects: Computational Techniques and Workflows. Routledge London
        and New York
2022    Madl, A. 'The Nuclear Chronicles: Design Research on the Landscapes of the US Nuclear Highway' (AR+D/ORO Editions
        2024FA)
2022    Regional Globalism in the Tennessee Valley Publication/Book_ Design Research Project (accepted) 'Decoy as Legacy and
        Future' Madl. A
2022    'NFT' Project (Animation) Submission for Inclusion in 'NFT marketplace for architecture and design', Economies of Joy: The
        Space for Web3, The SITE Magazine
2022    Book Proposal (in revision from previous review) _Speculative and Fiction Narrative in Landscape Architecture
        (Routledge London and New York)
2019    Harvard GSD/Office for Urbanization Publication: South Florida and Sea Level: The Case of Miami Beach
2018    Harvard GSD Publication: Frontier City Adriaan Geuze + Daniel Vasini
2017    Harvard GSD Publication: Retooling the Metropolis: Provisional Landscapes, Emergent Urbanism in
        Houston's Eastern Bayous Chris Reed
2016    Harvard GSD Platform 9 Project Feature: "Crater" p.286-287. Actar Publishers

## Conferences/Talks

2022    University of Tennessee SPARKS Talk: Artificial Intelligence_ Invited Speaker_ "Nuclear Parallels"
2022    CELA Abstract/Poster: 'Artificial Intelligence as a Design Process' Madl. A_ Conference Date: March 15-18 2023
2020    CELA Abstract/Presentation: 'Digital Aesthetic' Co-authored with Scottie McDaniel_ Conference Date: March 18-21 2020

## Exhibits

2019    Gallery Exhibit UTK CoAD Downtown Exhibition Space_ PHASE STATE: Re-tooling Intermodal Territorial Morphologies


# _Funding/Grant

2023    UTK CoAD Research Development Seed Award_'Moose of the USSR: Game Logic and Video Game Creation as Design
        Research'_$8,000.00
2021    University of Tennessee, College of Architecture and Design Faculty Development Award_'Nuclear Parallels'_$2,500.00


# _Awards

2022    Shortlisted Competition Entry 'The Last Nuclear Bomb Memorial Ed.02' (international architecture design competition)
2021    Shortlisted Competition Entry for 'The Last Nuclear Bomb Memorial' (international architecture design competition)
2015    ASLA Merit Award Winner_ Presented by PA-DE ASLA
2015    Award for Undergraduate Research on Sustainability & the Environment_ Second Place
2015    College of Arts and Architecture Creative Achievement Award (The Pennsylvania State
        University)
2014    PA–DE ASLA Student Honor Award in The Student Community Service Award Project: Crossroads Park: A
        Community Revitalization & Ecological Regeneration Catalyst
2014    The Pennsylvania State University, College of Arts & Architecture: Golumbic Scholarship Award
        for Design Achievement
2014    Landscape Architecture Department (The Pennsylvania State University): 4th year Design
        Excellence Award


# _Professional Experience

2016-   **Stephen Stimson Associates**
2017    Responsibilities | Conceptual Design - Drafting - 3D Modeling - Presentation Graphics

2016-   **Kimberly Mercurio Landscape Architecture**
2017    Responsibilities | Drafting - 3D Modeling - Construction Documentation - Presentation Graphics
        Conceptual Design - Construction Review - Cost Estimating

2015/   **L+A Landscape Architecture**
2017    Responsibilities | Drafting - 3D Modeling - Construction Documentation - Presentation Graphics

2015    **Landworks Studio Inc.**
        Responsibilities | Drafting - 3D Modeling - Construction Documentation - Presentation Graphics
        Conceptual Design - Construction Review - Cost Estimating- Meetings w/ Clients

2013-   **Haas Landscape Architects**
2014    Responsibilities | Construction Documentation - 3D Modeling - Planting Plan Creation &
        Diagramming - Tree Species Maturity Study & Diagramming - Section Rendering - Physical Modeling

2014    **Michael Van Valkenburgh Associates, Inc.(MVVA)**
        Responsibilities | Drafting - 3D Modeling – Construction Documentation - Presentation Graphics

## _Areas of Interest/Research

Computation
Simulation
Animation
Game Logic
Speculative Landscapes
Fictional Scenarios
World Building/Storytelling


## _Software/Technology

### 3d Modeling/Animation/Simulation/Rendering/Drafting

Rhino 3D
Grasshopper (+ plugins)
Blender (+ add-ons)
3ds Max (+Arnold algorithmic render)
RealFlow (Fluid Simulation)
AutoDesk CFD (computational fluid dynamics)
AutoCAD

### Post Processing

(Adobe Creative Suite)
Photoshop
Illustrator
InDesign
After Effects

### Game Logic/World Building

UPBGE
Unity
World Machine

### Cartography and Geospatial Data

ArcMap/ArcGIS Pro
CloudCompare (LIDAR data processing/editing)

### Digital Fabrication

CNC Routing (Mastercam + RhinoCAM for file programing/coding)
3D printing
Laser Cutting

### Artificial Intelligence/Machine Learning Platforms

RunwayML

### Coding Languages

Processing
Java
Python