

# Elijah Michael Hughes

Carnegie Mellon University  
Bachelor's of Architecture  
N.A.A.B Accredited First Professional Degree

May 2016

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## Recent Experience

### **evolve environment :: architecture** Pittsburgh, Pennsylvania 2016-present

Designer + Systems Analyst

I use GIS shapefile analysis to reimagine the relationships between cities, their people and their infrastructure. Big challenges and opportunities lie ahead as our urban areas respond to the benefits of green and sustainable infrastructure.

### **Carnegie Museum of Natural History** Pittsburgh, Pennsylvania 2012-2016

Research Assistant, Section of Mammals

I used photography, Micro-CT scanning, and 3d laser scanning to collect, format, segment, measure, and analyze specimens from the Museum's 130,000 extant and 70,000 fossil mammal collections. I quickly honed new morphological analysis techniques to make contributions to the study of mammalian anatomy and evolution.

### **The Waffle Shop** Pittsburgh, Pennsylvania 2011-2012

Producer, Shift Manager, Marketing, Server

Ignited discussion on the late night live streaming talk show in a Pittsburgh neighborhood experiencing rapid gentrification. [waffleshop.org](http://waffleshop.org)

### **Department of City Planning** Pittsburgh, Pennsylvania 2011

ADA Architectural Assistant

Planned and implemented policies to promote accessible design in the City of Pittsburgh. This involved creating educational materials, cooperating with local committees, and passed bills 2011-1967 and 2011-1968 to help small businesses become more accessible. I also brought the Accessible Pittsburgh series to a broader audience by establishing an online video channel.

## Publications + Posters

### *Anatomy of the Pedal Skeleton of the Hispaniolan Solenodon, Solenodon paradoxus Brandt 1833 (Mammalia, Liptyphla, Solenodontidae)*

Wible, J.R. and **E.M. Hughes**

Annals of the Carnegie Museum of Natural History

31 January, 2016

### *Mammalian Petrosal from the Upper Jurassic Morrison Formation of Fruita, Colorado*

**Hughes, E.M.**, J. R. Wible, M. Spaulding, Z.-X. Luo

Annals of the Carnegie Museum of Natural History

April 30, 2015

### *CT-Imaging and Virtual Endocast Reconstruction in Carnivoramorpha (Mammalia)*

Spaulding, M., J. Flynn, **E.M. Hughes**, N. Pilla

Society of Vertebrate Paleontology 75th Meeting

October 14 - October 17, 2015

### *The Brain and Internal Cranial Anatomy of Viverravus minutus (Mammalia:Carnivoramorpha)*

Spaulding, M. **E.M. Hughes**, J. Flynn

Society of Vertebrate Paleontology 73rd Meeting

October 30 - November 02, 2013

## Software

Avizo versions 7.0 - 9.0.1  
Adobe Photoshop  
Adobe Illustrator  
Adobe InDesign  
Adobe Dreamweaver  
Adobe Premiere Pro  
Autodesk 123D  
Autodesk 3ds Max  
Autodesk AutoCAD  
Autodesk Ecotect  
Autodesk Flow Design  
Autodesk Revit  
Google Sketchup  
Grasshopper for Rhino  
Makerbot Desktop  
MeshMixer  
ReplicatorG  
Rhinoceros 4.0 & 5.0  
ScanStudio HD  
SOLAS for Missing Data  
Systat 13  
VRay for Rhino

## Software Languages

CSS  
HTML  
Javascript  
Matlab  
Python 3

## Tools

CNT Motions 3-axis CNC  
Dimension ABS 3D Printer  
Epilog Laser Engraver  
Makerbot Replicator 1 + 5  
NextEngine 3D Laser Scanner  
Olympia Millennium Ice Resurfacer  
Siemens Micro-CT/PET/SPECT

## Education

Carnegie Mellon	2015
Hebron Academy	2009
Student Proctor	08-09
Class President	07-09
Class Treasurer	05-07
Phemister Award for Outstanding Leadership	
Book Award for Religion and Ethics	