

Justin Paul SKYCAK

EXPERIENCE

<i>Current</i> JAN 2016	Data Scientist Intern @ AUNALYTICS (Tech Startup)
<i>Current</i> MAR 2013	Learning Center Instructor @ MATHNASIUM OF GRANGER (Tutoring Franchise) Taught maths to students of all grades and occasionally ran the center.
AUG 2015	Summer Research Intern @ NEW MEXICO CONSORTIUM (Engineering Lab in Los Alamos, NM)
MAY 2015	<ul style="list-style-type: none">› Attempted to generate neural firing rate oscillations using the brain-inspired PetaVision deep learning library› Successfully implemented spiking neurons but unable to demonstrate spike-rate oscillations› Notre Dame Summer Research Grant: apx \$3,000
JULY 2013	Summer Research Intern @ QUARKNET (Particle Detection Lab at University of Notre Dame)
MAY 2013	<ul style="list-style-type: none">› Tested and analyzed efficacy of light generation/transmission materials› Results sent to decision-makers of material upgrades in the CMS particle detector at CERN.› Presented project at regional (NIRSEF) and state (HSEF) science fairs› IAS Junior Research grant: \$300› Project name: "Optimizing Scintillation and Light Transmission for Use in a High-Energy Particle Detector"
MAY 2013	Volunteer Researcher @ LEVINE LAB (Particle Detection Lab at Indiana University South Bend)
SEPT 2012	<ul style="list-style-type: none">› Designed and created a material to improve acoustic sensors in the COUPP dark matter detector› Presented project at regional (NIRSEF), state (HSEF, INJSHS, IAS Talent Search), and international (ISEF) science fairs› IAS Junior Research Grant: apx \$50› Project name: "Making a Matching Layer for Acoustic Sensors in a COUPP Dark Matter Detector"
2013	Camp Counselor @ CHILDREN'S DISPENSARY (Special-needs Nonprofit in South Bend, IN)
2011	<ul style="list-style-type: none">› Taught, supervised, and assisted special-needs children.› Created promotional media CDs.

EDUCATION

<i>Current</i>	B.S. in Honors Mathematics @ UNIVERSITY OF NOTRE DAME
AUG 2014	<ul style="list-style-type: none">› Took applied maths grad-level courses as a sophomore› Glynn Honors Scholar› Presented comp neuro project "Network Motif-Inspired Evolution of Hodgkin-Huxley Neuronal Networks with Spike-Timing Dependent Plasticity" at ND COS-JAM 2015› Published maths project "Numerical Investigation of the $3n+1$ Problem and its Continuous Extension" in Scientia, ND's journal of undergrad research, & served 2 yrs as maths section editor
<i>May 2014</i>	Valedictorian @ MARIAN HIGH SCHOOL (Mishawaka, IN)
AUG 2010	<ul style="list-style-type: none">› Eli Lilly Scholarship (4 yrs. full tuition at any Indiana college)› National Merit Finalist› National AP Scholar› 2x regional Chem Olympiad regional finalist