

# **Design Portfolio**

**By Greg Sarafian**

# **Hack River Dell 2017**

**River Dell High School's 2nd Annual Hackathon**

# Hack River Dell

River Dell's Second Annual Hackathon

November 18-19, 2017

River Dell High School - Oradell, NJ

Live



## River Dell's Second Annual Hackathon

In December 2016, students from River Dell High School organized "Hack River Dell" an exclusively student-run hackathon. As a part of Major League Hacking's Local Hack Day 2016, Hack River Dell brought together students from the local community to hack together and build some insanely cool projects. With Hack River Dell 2017, the team looks to continue the tradition of excellence set by last year's inaugural event.

[Read about Hack River Dell 2016 >](#)

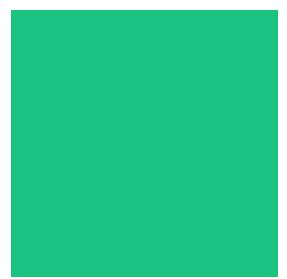


Guests

Explore my website design at <http://2017.hackriverdell.com>

# HACK RIVER DELL 2017 LOGO

GREG SARAFIAN - DESIGN PORTFOLIO



**Algae**

#1AC37F



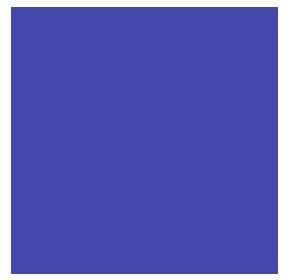
**Jet Blue**

#2176F3



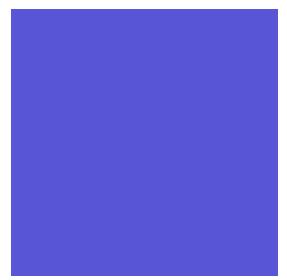
**Deep Blue**

#256FDE



**Delta**

#3E63D3



**Kremlin**

#5855D6



HACK RIVER DELL 2017 HACKER T-SHIRT  
GREG SARAFIAN - DESIGN PORTFOLIO



HACK RIVER DELL 2017 STAFF T-SHIRT  
GREG SARAFIAN - DESIGN PORTFOLIO



HACK RIVER DELL 2017 ALTERNATE T-SHIRT  
GREG SARAFIAN - DESIGN PORTFOLIO





HACK RIVER DELL 2017 POSTER ADVERTISEMENT  
GREG SARAFIAN - DESIGN PORTFOLIO

# Hack River Dell

November 18-19, 2017 at River Dell High School

River Dell's **FREE** invention building all-nighter.

No matter what you're passionate about, come show off your creativity at River Dell's second-annual hackathon. At Hack River Dell you and your team work together to build an innovative project like a game, website or app - no prior coding knowledge required! You'll have the opportunity to meet some amazing influencers, learn how to code, and get a ton of free stuff. Any high school students are welcome to attend!



**WIN A PS4!**  
At the Super Smash Bros. Tournament

Playstation 4 prize limited to one individual winner

Don't know how to code?  
No problem! At Hack River Dell there will be plenty of workshops and mentors to help bring your idea to life.

MLH  
SEASON  
**18**

**November**  
**18-19**  
2017

**DESIGN. BUILD. CODE.**

**WIN PRIZES**

**LEARN**

**FREE FOOD**

**FREE SWAG**

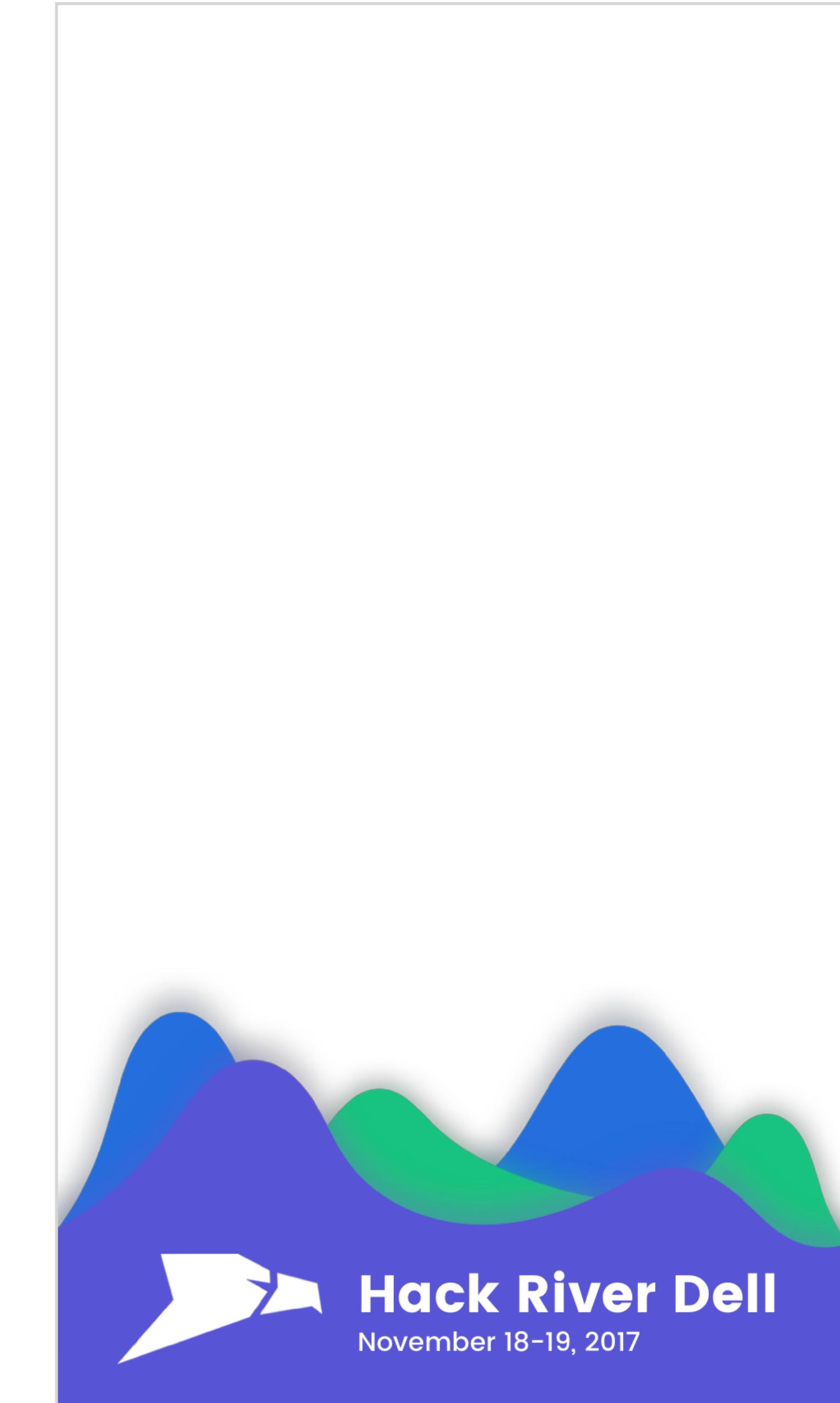
**ALL HIGH SCHOOL STUDENTS WELCOME**

**RIVER DELL HIGH SCHOOL**

@HackRiverDell

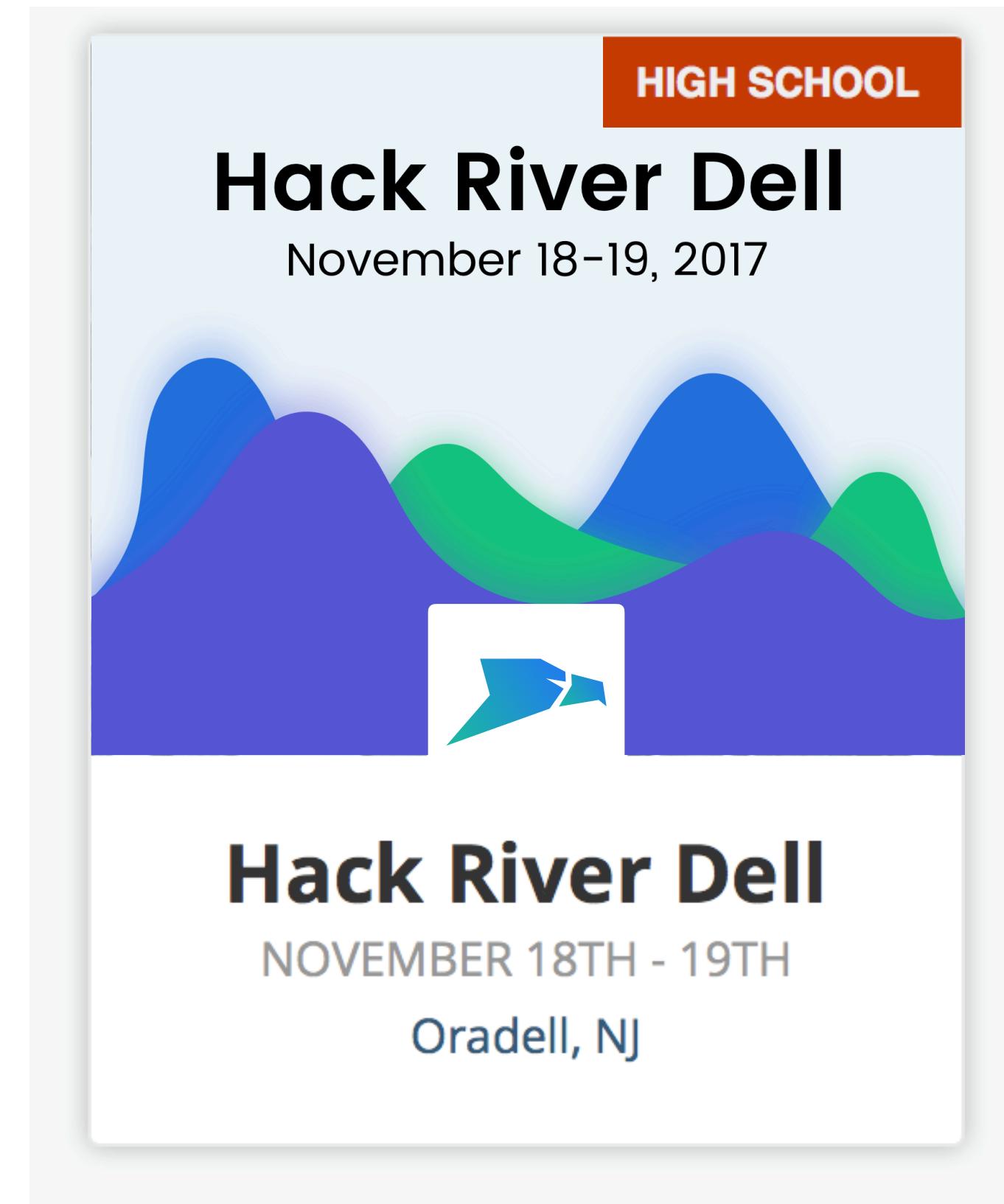
Sign up at [hackriverdell.com](http://hackriverdell.com)

HACK RIVER DELL 2017 SNAPCHAT GEOFILTER  
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# HACK RIVER DELL 2017 MLH MEMBER EVENTS PAGE

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# HACK RIVER DELL 2017 OPEN-GRAPH IMAGE

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# HACK RIVER DELL 2017 FACEBOOK BANNER IMAGE

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# Hack River Dell

November 18-19 at River Dell High School



First Data



HACK RIVER DELL 2017 EVENT BADGE  
GREG SARAFIAN - DESIGN PORTFOLIO



# Hack River Dell

Please print your name in this space

November 18-19, 2017



**Please wear this badge at all times. If you have a question, concern, or feel unsafe at anytime during the event please speak to a staff member in a blue shirt.**

**Thank you for attending Hack River Dell!**

**Visit [live.HackRiverDell.com](http://live.HackRiverDell.com) for more info**

HACK RIVER DELL 2017 EVENT BADGE  
GREG SARAFIAN - DESIGN PORTFOLIO



**Hack River Dell**

Please print your name in this space

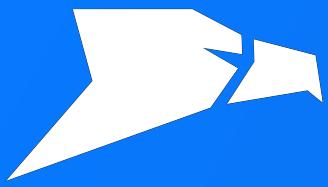
**GUEST**



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**Visit [live.HackRiverDell.com](http://live.HackRiverDell.com) for more info**



## Hack River Dell

Sign up

Email

Password

Confirm Password

birthday

Month

Day

Year

Next

By clicking "Next" you affirm that you have  
read and agree to the [MLH Code of Conduct](#)



## FOR YOUR HACK

**Devpost**

Submit your hack. Submissions open at 9:00 AM, Sunday.

**Amazon Web Services**

Utilize the power of AWS. Use code "Hack River Dell" at checkout.

**Domain.com**

Claim your free .com, .org, or .net domain using one of the promo code cards.

## GET HELP

**Make School Workshops**

Sign up for one of the workshops offered by Make School.

**Request a mentor**

In need of specialized support for your hack? Request a mentor to help you out.

**Stack Overflow**

A community of coders who have likely solved the problem you're encountering.

# **STEMposium 2017-18**

**River Dell High School's annual student research exhibition**

River Dell Regional High School's 6th Annual

# STEMposium 2018



May 21, 2018

## About

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### STEMposium 2018

Each year, River Dell's Science Research Program presents the annual River Dell STEMposium. The STEMposium showcases the research of students in the Science Research course. Students work on their own individual research projects under the supervision of the course instructor and with guidance from a mentor. The STEMposium also features a keynote speaker to present the latest in science, engineering, technology, and mathematics. The seniors of the Science Research course also do an oral presentation to present their three years of research. By providing a medium to present these research projects, the STEMposium allows the River Dell community to interact with emerging sciences such as bioengineering, cybersecurity, and more.

### Science Research

The Science Research Class offered at River Dell High School allows students to conduct original research and compete in various science competitions. The course is offered through SUNY Albany's University in the High School program. Starting in their sophomore year, students explore various subject areas in the sciences that interest them, first by reading and evaluating general literature, then progressing to journals in scientific literature. Areas of study that may be investigated include mathematics, technology, physical sciences, life sciences, social sciences, psychology, and more.

Science Research improves student's written and oral communication skills. During their research, students take notes and write responses to articles in their own lab notebooks. Students' work is frequently reviewed to ensure progress on their projects. Students are also required to give presentations on their findings about twice a month. Other students give constructive criticism regarding improvements on their research as well as presentation skills. As a three-year commitment course, Students work on their research from their sophomore year through their senior year, including during the summer. The Science Research class allows students to engage with science in a way otherwise not possible.

## Event

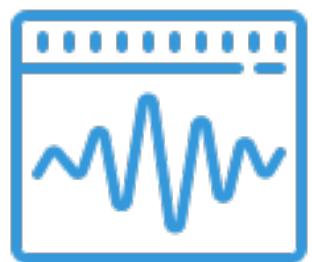
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**Explore my website design at <http://riverdell.org/stemposium>**

# STEMPOSIUM - BROCHURE (FRONT PAGE)

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## Keynote Presentation



### Listening to the Universe

#### Ripples in spacetime from colliding black holes and neutron stars

Gravitational waves are ripples in the curvature of spacetime predicted by Albert Einstein over 100 years ago. They are produced by tremendous cosmic explosions, like the collisions of black holes or very dense stars. In 2015, the waves from these collisions were detected for the first time by the Laser Interferometer Gravitational-wave Observatory (LIGO) – a discovery that was recognized with the 2017 Nobel Prize in Physics. I will explain what these collisions are, how we detect them, and what we will learn from them in the future.

Presented by

#### Marc Favata

Associate Professor of Physics,  
Montclair State University

## Schedule

6:30

#### Social

Light refreshments served

7:00

#### Opening Remarks

Dr. Chin Chu

7:05

#### Keynote Presentation

Listening to the Universe, Marc Favata

7:45

#### Intermission

Quick break before senior presentations

7:50

#### Senior Presentations

Oral presentations from our seniors

9:00

#### Closing Remarks

Good night!

9:05

#### Poster Session

Explore the remaining research projects

River Dell High School's 6th Annual  
**STEMPOSIUM**

May 21, 2018



River Dell High School  
55 Pyle Street Oradell, NJ

[www.riverdell.org/STEMposium](http://www.riverdell.org/STEMposium)

# STEMPOSIUM - BROCHURE (BACK PAGE)

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## The Science Research Class

The Science Research Class allows students to conduct original science research and compete in science competitions. Starting in their sophomore year, students explore various subject areas in the sciences that interest them, first by reading and evaluating general literature, then progressing to journals in scientific literature. Areas of study that may be investigated include mathematics, technology, physical sciences, life sciences, social sciences, psychology, and more.

Science Research improves student's written and oral communication skills. During their research, students take notes and write responses to articles in their own lab notebooks. Students' work is frequently reviewed to ensure progress on their projects. Students are also required to give presentations on their findings about twice a month. Other students give constructive criticism regarding improvements on their research as well as presentation skills.

Once students have selected an area of research they would like to pursue, they conduct original research under the guidance of a mentor as well as the research teacher. Students continue their work throughout the summer and school year of junior year as well as senior year.

## Senior Research



### Smartphone Security Awareness of Teenagers

Michael Vasile, Greg Sarafian



### Learning with the Kinect

Sean Kee



### 3D Bioprinting: The Future of Bioengineering

Alyssa Kim



### Microsatellite Sail Stiffness

Hahram Kim



### What Racing Fuel Offers the Best Performance?

William Lee



### Missions to Search for Earth-like Exoplanets by Direct Imaging

Julian Munoz

## Research Projects



### Use of fMRI in Neuroscience

Minatulah Elzawawy



### Evidence Supporting the Big Bang Theory

Juliana Blasco



### Familiarity Promotes the Blurring of Self and Other in the Neural Representation of Threat

James Chan



### Telomerase Gene Therapy Increases Longevity in Mice

Steven Gu



### Correlation between LIF Gene and Behavioral Impairment after Head Trauma

Sophia Lukac

# STEMPOSIUM - BROCHURE (ADVERTISING FLYER)

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River Dell High School's 6th Annual

# STEMPOSIUM



River Dell's Student Research Exhibition

**May 21, 2018**

6:30pm - 9:00pm

Hosted in the RDHS Cafeteria

Learn more about research advances in subjects including...

Computer Science  
Astronomy  
Bioengineering  
Neuroscience

Gene Editing  
Satellite Imagery  
Automobiles  
Biology

Chemistry  
Education  
Mental Wellness  
Cyber Security



## KEYNOTE PRESENTATION



### Listening to the Universe

Ripples in spacetime from colliding black holes and neutron stars

Presented by Marc Favata

Two lucky attendees will win a  
**GOOGLE HOME MINI**

RSVP now at [riverdell.org/stemposium](http://riverdell.org/stemposium)

**For more information and design experience, visit:  
<http://gregsarafian.com>**

**Contact: [hello@gregsarafian.com](mailto:hello@gregsarafian.com)**