KEVIN GLEASON

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PROFESSIONAL PREPARATION

 \star Doctor of Philosophy, Mechanical Engineering

2015 – Current

Engineering and Applied Sciences

 $\underline{\text{Advisor}}\text{: Dr. Alessandro Gomez}$

Yale University; New Haven, CT.

* Master of Science, Aerospace Engineering

2014 - 2015

* Bachelor of Science, Aerospace Engineering

2009 - 2014

Joint B.S./M.S. Program, Cum Laude Honors, & Honors in the Major

Advisor: Dr. Shawn A. Putnam

University of Central Florida; Orlando, FL.

APPOINTMENTS

Graduate Research Assistant (Yale University):

July 2015 - Current

Investigating soot formation in diffusion and partially premixed counterflow flames at elevated pressures up to 5MPa, incorporating a wide range of diagnostics to study both gas phase kinetics and soot inception/growth.

Graduate Research Assistant (University of Central Florida):

May 2014 – May 2015

- 1) Collaboration with NASA Kennedy Space Center Launch Services to experimentally measure the rate of vapor migration into a payload fairing on a launch vehicle.
- 2) Developing a low temperature, vapor-phase deposition technique of modified graphene oxide using a coupled evaporation-to-condensation transfer process.
- 3) Studying steady-state water droplet evaporation on a heated substrate systematically correlate the effects of a droplets contact angle on the evaporation rate.

Undergraduate Research Assistant:

Nov. 2012 – May 2014

Investigating water microdroplet evaporation on heated substrates, focusing on both controlling a droplets contact line dynamics and validating numerical models.

Teaching Assistant/Tutor:

⇒ Mechanical Engineering II: Fluid Mechanics	Aug. 2016 – Dec. 2016
\Rightarrow Fundamentals of Aerodynamics	Jan. $2015 - May 2015$
\Rightarrow Fundamentals of Aerospace Flight	Aug. 2013 – Dec. 2013
\Rightarrow Aerospace Vibration Analysis	Jan. 2013 – May 2013
\Rightarrow Aeroelasticity	Jan. 2013 – May 2013
\Rightarrow Engineering Thermodynamics	Aug. 2011 – Dec. 2012
\Rightarrow Engineering Analysis: Dynamics	May 2012 – Aug. 2012

HONORS & AWARDS

\rightarrow Best Presentation at UCF MAE Department Graduate Research Symposium	2015
\rightarrow Best in Category (Engineering, CS, & Optics) at UCF Graduate Research Forum	2015
\rightarrow Department Nominee for UCF College of Engineering 2014 Founders' Award	2014
\rightarrow Office of Undergraduate Research Student Research Grant	2013
\rightarrow Honors in the Major Scholarship	2013

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