

# Jared Brooks

---

<b>Address</b>	Dept. of Physics, UC Santa Barbara, Santa Barbara, CA 93106, USA	<b>Phone</b>	(206) 313-1788
<b>Date of Birth</b>	26 <sup>th</sup> January 1989	<b>Website</b>	brooksjaredc.github.io
		<b>Email</b>	brooksjaredc@gmail.com

## Statement of Purpose

I am a PhD student astrophysicist with experience in computer modeling and data analysis, and an interest in solving a wide variety of complex problems relating to and utilizing new technologies.

## Education

<b>2012-now</b>	PhD program in Physics - UC Santa Barbara
	PhD: Physics (expected)    September 2017
	Master of Arts: Physics    March    2015
	Broida Fellowship    September 2012
<b>2007-2011</b>	BSc in Physics - University of Southern California
	Minor in Mathematics
	Lick Scholarship - 2010

## Publications

<b>Dec 2016</b>	PTF1 J082340.04+081936.5: A hot subdwarf B star with a low mass white dwarf companion in an 87 minute orbit  Kupfer, Thomas; van Roestel, Jan; <b>Brooks, Jared</b> ; Geier, Stephan; Marsh, Tom R.; Groot, Paul J.; Bloemen, Steven; Prince, Thomas A.; Bellm, Eric; Heber, Ulrich; Bildsten, Lars; Miller, Adam A.; Dyer, Martin J.; Dhillon, Vik S.; Green, Matthew; Irawati, Puji; Laher, Russ; Littlefair, Stuart P.; Shupe, David L.; Steidel, Charles C.; Rattansoon, Somsawat; Pettini, Max
<b>Nov 2016</b>	Convection Destroys the Core/Mantle Structure in Hybrid C/O/Ne White Dwarfs <b>Brooks, Jared</b> ; Schwab, Josiah; Bildsten, Lars; Quataert, Eliot; Paxton, Bill
<b>Apr 2016</b>	Carbon Shell or Core Ignitions in White Dwarfs Accreting from Helium Stars <b>Brooks, Jared</b> ; Bildsten, Lars; Schwab, Josiah; Paxton, Bill
<b>July 2015</b>	AM Canum Venaticorum Progenitors with Helium Star Donors and the Resultant Explosions <b>Brooks, Jared</b> ; Bildsten, Lars; Marchant, Pablo; Paxton, Bill
<b>Nov 2013</b>	Hydrogen Burning on Accreting White Dwarfs: Stability, Recurrent Novae, and the Post-nova Supersoft Phase  Wolf, William M.; Bildsten, Lars; <b>Brooks, Jared</b> ; Paxton, Bill

## Software Engineering Skills

### ■ Programming Languages

*Ruby* - MRI 1.8.7, 1.9.2  
*ASP.NET*, *C#*, *VB.NET*  
*PHP*  
*Java/Scala*

- **Web Development**

*HTML5, CSS3/SASS, JavaScript/CoffeeScript/jQuery*

*Ruby on Rails v3.1*

*Test:Unit, RSpec, Cucumber, Selenium* - automated testing frameworks

*Apache/Nginx Web Servers*

- **Miscellaneous**

*Microsoft SQL Server 2000/2005* - database architecture and administration

*Transact-SQL* - data definition and manipulation

*SQL Profiler* - performance tuning and debugging

*MySQL Server*

*CVS, DARCS, git* - source version control

## Interests

- **Badminton, Tennis, Running, Cycling, Sailing**
- **Travelling**
- **Creative Writing**
- **Photography**
- **Car Mechanics**

## Referees

<b>Name</b>	Bill Lumbergh
<b>Company</b>	Initech Inc.
<b>Position</b>	Vice President
<b>Contact</b>	bill@initech.com

<b>Name</b>	Michael "Big Mike" Tucker
<b>Company</b>	Burbank Buy More
<b>Position</b>	Store Manager
<b>Contact</b>	mike@buymore.com