

Name: Gabriel Casabona Year 4 of 4

Verification of Fellowship and Dissertation Calendar and Publication Information

Fellowship Completion Schedule	Date
Date Fellowship Began	2019
Date to Identify M.S. Thesis Topic *	n/a
Date to Finish M.S. Thesis Research *	n/a
Date to Receive M.S. Degree *	n/a
Date of Ph.D. Candidacy Exams	06/23
Date to Identify Ph.D. Dissertation Topic	06/23
Date of Dissertation Defense	06/25
Date Ph.D. Dissertation Final Submission	06/25
Date to Receive Ph.D. Degree	06/25

M.S. Thesis Topic *

n/a

Ph.D. Thesis Area

Theoretical Astrophysics

Ph.D. Dissertation Topic

Theoretical and computational modeling of a fully general relativistic fluid model for neutron stars.

Publications

Mozumdar, P., Fisher, R., & Casabona, G (Jul 2018). Carbon Detonation Initiation in Turbulent Electron-Degenerate Matter. arXiv:1807.03786 (in submission to ApJ)

Casabona, G (Mar 2019). Detonation Initiation in Type Ia Supernovae.

APS March 2019. Boston, Massachusetts

Casabona, G (Nov 2018). Carbon Detonation Initiation in Turbulent Electron-Degenerate Matter. APS New England 2018. University of Massachusetts Dartmouth

Casabona, G (Apr 2018). Carbon Detonation Initiation in Turbulent Electron-Degenerate Matter. APS April 2018. Columbus, Ohio

Casabona, G (Jan 2019). Detonation Initiation in Type Ia Supernovae.

DOE CSGF - Gabriel Casabona

223 rd Meeting of the AAS. Seattle, Washington	
Casabona, G (Nov 2018). Carbon Detonation Initiation in Turbulent Electron-Degenerate Matter. APS Bridge/NMC Conference 2018. Stanford University	
Casabona, G (Jul 2018). Carbon Detonation Initiation in Turbulent Electron-Degenerate Matter. IHPCSS. Technical University of Ostrava, Czech Republic	
Awards and honors	
FIU Dean's List: Spring 2013, Spring 2016	
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I have completed this dissertation calendar and publication information form and affirm that to the best of manufacture knowledge it accurately reflects my expected plans.	ı
Signature of Fellow Date	
Signature of Academic Advisor Date	
Signature of Krell Institute Date	
Please send the signed page to the following address:	
DOE Computational Science Graduate Fellowship Program Krell Institute Attn: DOE CSGF Coordinator 1609 Golden Aspen Drive, Suite 101 Ames, IA 50010 Phone: 515-956-3696 Fax: 515-956-3699 csgf@krellinst.org	
* If Applicable	