

Timeline of Graduate Studies

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August 2014: Begin graduate studies. Begin graduate coursework; assume position of Teaching Assistant for 2014-2015 academic year

May 2015: Begin work as a graduate Research Assistant with Benjamin P. Brown.

September 2015: Start of proposed funding from NESSF.

Fall 2015: Build initial dynamo models with and without tachocline.

January 2016: (1) Complete first departmental qualifier for PhD candidacy, “COMPS I”, a comprehensive test over five core courses: Atomic & Molecular Processes, Mathematical Methods, Fluid Mechanics, Observations & Statistics, and Radiative Processes. (2) Begin assessing the tachocline’s role in setting cycle periods.

May 2016: Complete graduate courses. Further time in the department will be devoted entirely to research.

Fall 2016: Write and publish a peer-reviewed article on findings regarding the tachocline’s role.

December 2016: Complete second departmental qualifier for PhD candidacy, “COMPS II”, a defense of completed research up until this point. If successful, move on to PhD candidacy.

Spring 2017: Build dynamo models which include solar photosphere. Begin development of post-processing techniques to create simulated observables.

Summer 2017: Create simulated observables which parallel data taken by the Solar Dynamics Observatory (SDO) and the future Solar Orbiter.

Fall 2017-Spring 2018: Analyze simulated observables, comparing them to current SDO data. Use simulated observables to predict phenomenon that the Solar Orbiter will observe.

Summer 2018: Write and publish a peer-reviewed article on findings and predictions derived from simulated observables.

August 2018: Completion of proposed funding from NESSF.

May 2019: Anticipated graduation date