

PERSONAL
INFORMATION

Bin Chen
Place of Birth: Jiangxi, China
Date of Birth: March 6, 1985

Department of Astronomy
University of Virginia
Charlottesville VA, 22904
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EDUCATION

University of Virginia, Charlottesville VA, USA

Ph.D., Astronomy, 2013 (expected)

- Thesis Topic: Imaging Spectroscopy of Solar Coherent Radio Bursts
- Advisor: Dr. Timothy S. Bastian

M.Sc., Astronomy, May 2010

- Advisor: Dr. Timothy S. Bastian

Graduate University of the Chinese Academy of Sciences, Beijing, China

M.Sc., Astrophysics, 2008

- Thesis Topic: Superfine Spectral Structures in Solar Microwave Bursts
- Advisor: Dr. Yihua Yan

Peking University, Beijing, China

B.Sc., Physics, July 2005

- Thesis Topic: Diagnosis of Zebra-Pattern Structure in Solar Microwave Bursts
- Advisor: Dr. Yihua Yan

AWARDS

SPD Studentship Award, Solar Physics Division of the American Astronomical Society, 2009

Liu Yongling Fellowship for Outstanding Graduates, Graduate University of the Chinese Academy of Sciences, 2008

Dean's Award for Studying Excellence, Peking University, 2002

RESEARCH
INTERESTS

Solar radiophysics; solar flares; solar chromosphere and corona; solar coherent radio bursts; coronal mass ejection; coronal shocks; radiative processes; interferometry

REFEREED
PUBLICATIONS

- **Bin Chen**, Timothy S. Bastian, 2011, "The Role of Inverse Compton Scattering in Solar Coronal Hard X-ray and Gamma-ray Sources", submitted to *Astrophys. J.*
- **Bin Chen**, Timothy S. Bastian, Dale E. Gary, Ju Jing, 2011, "Spatially and Spectrally Resolved Observations of a Zebra Pattern in Solar Decimetric Radio Burst", *Astrophys. J.*, 736, 64.
- Yihua Yan, Jing Huang, **Bin Chen**, Yuying Liu, Chengmin Tan, 2010, "Radio Fine Structures in dm-cm Wavelength Range Associated with Magnetic Reconnection Processes", *Adv. in Space Research*, 46, 413-418.
- Gennady P. Chernov, Yihua Yan, Chengming Tan, **Bin Chen**, Qijun Fu, 2010, "Spiky Fine Structure of Type III-like Radio Bursts in Absorption", *Solar Physics*, 262, 149-170

- **Bin Chen** and Yihua Yan, 2007, “On the Origin of the Zebra Pattern with Pulsating Superfine Structures on 21 April 2002”, *Solar Physics*, 246, 431-443.
- **Bin Chen**, Yihua Yan, 2008, “Short-Lived Absorptive Type III-Like Microwave Bursts as a Signature of Fragmented Electron Injections”, *Astrophys. J.*, 689, 1412-1420.
- Yihua Yan, Jing Huang, **Bin Chen**, and Takashi Sakurai, 2007, “Diagnostics of Radio Fine Structures around 3 GHz with HINODE Data in the Impulsive Phase of an X3.4/4B Flare Event on 2006 December 13”, 2007, *Publications of the Astronomical Society of Japan*, 59, S815-S821.

PRESENTATIONS

- “Spatially and Spectrally Resolved Observations of a Zebra Pattern in Solar Decimetric Radio Burst”, 2011, talk at the Center for Solar-Terrestrial Research, New Jersey Institute of Technology, Newark, New Jersey, USA
- “Interplanetary Type II Radio Bursts and the Role of Synchrotron Radiation”, 2009, oral presentation at the Annual Meeting of the Solar Physics Division of the American Astronomical Society, Boulder, Colorado, USA
- “Possible Interpretations of Two Superfine Structures in Solar Microwave Bursts during Flare Events”, 2007, oral presentation at the Annual Meeting of the Chinese Astronomical Society, Guangzhou, China.
- “Superfine Spectral Structures in Solar Microwave Bursts”, 2007, oral presentation at the 8th Chinese-Russian Workshop on Space Weather, Beijing, China.
- “Analysis of Zebra-Pattern Structures Observed during the 21 April 2002 Flare Event”, 2006, oral presentation at the 2nd Workshop on Chinese Solar Radioheliograph and Annual Meeting of Solar Radio Physics, Lijiang, China.

TEACHING AND PUBLIC OUTREACH

- August 2008 - present: Graduate Teaching Assistant, University of Virginia. Teaching Assistant to introductory-level undergraduate courses in astronomy.
- August 2008 - present: Volunteer, public nights at University of Virginia’s observatories. Service at the bimonthly McCormick Observatory public night and at the semesterly Fan Mountain open house.