

CURRICULUM VITAE

Weiguang Cui

Personal Data

PLACE AND DATE OF BIRTH: Zhengding, Hebei, China | 01 Oct. 1981
 WORK ADDRESS: University of Trieste,
 Via R. Bazzoni, 2,
 34124, Trieste, Italy
 PHONE: +39 040 3199141
 EMAIL: wgcui@oats.inaf.it
 HOME PAGE: <http://adlibitum.oats.inaf.it/wgcui/>
 NATIONALITY: China

Employment

Oct 2010 - now Marie Curie ITF fellowship in the CosmoComp Network at University of Trieste, Italy
 Jun 2004 - 2005 Engineer, Foxconn Company, Shenzhen, China

Education

Aug 2007 - Jun 2010 PhD student in Astrophysics,
 Shanghai Astronomical Observatory,
 Supervisor: Prof. Pengjie Zhang and Prof. Xiaohu Yang
 Title: The nonlinear evolution of LSS under modified gravity cosmology
 Feb 2009 - Feb 2010 Exchange student at Max-Planck-Institute for Astrophysics,
 Garching, Munich
 Supervisor: Prof. Volker Springel
 Aug 2005 - Jul 2006 Exchange student at University of Science and Technology of China,
 Hefei, Anhui
 Aug 2005 - Jul 2007 Master student in Astrophysics,
 Shanghai Astronomical Observatory
 Supervisor: Prof. Pengjie Zhang and Prof. Xiaohu Yang
 Sep 2000 - Jul 2004 Department of Physics, Hebei University of Technology
 1997 - 2000 Senior high school, Zhengding
 1994 - 1997 Junior high school, Xinchengpu
 1988 - 1994 Elementary school, Dongpingle

Awards and Honors

2008, 2009 First class doctor scholarship
 2007 First class master scholarship
 2003 Second class scholarship at Hebei University of Technology
 2002 Third class scholarship at Hebei University of Technology

Research Interests

Cosmology: The large scale structure of the universe, with statistical methods, power spectrum, halo mass function, correlation function, etc.

Galaxy formation and evolution: Galaxies in hydro-simulations and semi-analytical models. The properties, formation and evolution of Galaxy Clusters, especially in the Intra-Cluster Light and Fossil Groups;

Theory: Modified gravity and dark energy.

Numerical simulation: The algorithm; Hydro-simulations; substructure identification; Modified gravity simulation; Visualization.

Language and Skills

- Native language: Chinese; Fluent in English; principiante in italiano, ho passato l'esame A1.
- Programming Language: expert in C and IDL, python, OpenMP, HTML. familiar with Fortran, Perl and Bash-Scripting, MPI, opengl.
- Expert in GADGET-2, GADGET-3, FoF, SubFind and L-SubFind code and its data structure, familiar with fits and HDF5 data structure.
- Advanced knowledge of the professional typesetting package \LaTeX .

Professional Experience

4-7 Sep. 2012	Co-organizer of COSMOCOMP@TRIESTE Workshop, Trieste, Italy
Apr. 2012 - now	Main organizer of the regular ICL group meeting at Trieste
Sep. 2011 - now	Member of INAF
Oct. 2010 - now	Member of CosmoComp

Talks and Conferences

5, Sep., 2012	<i>Comparing ICL in two methods & AGN feedback in HMF</i> CosmoComp Meeting, Trieste, Italy
11, June, 2012	<i>ICL in Dianoga Simulation</i> 2th Hydrosim meeting, Bologna, Italy
4, July, 2012	<i>The halo mass function in interacting DE models</i> Beyond LCDM conference, Sexten, Italy
6, Feb. 2012	Invited talk: <i>Fossil Groups in Simulations</i> , Instituto de Astrofísica de Canarias, Tenerife, Spain
23, Dec. 2011	Short visit and Invited talk: <i>The effects of baryon physics process on the halo mass function</i> Shanghai Astronomical Observatory, Shanghai, China
18-22, July, 2010	Poster: <i>Environments effects on fossil groups from Cosmological simulations and galaxy formation models</i> Galaxy formation meeting, Durham, UK.
12, May, 2010	<i>The effects of baryon physics processes on the halo mass function</i> CosmoComp Meeting, Garching, Germany
9, Nov., 2009	<i>Fossil group in GIMIC simulations</i> MPA Partner Group Mid-term Evaluation, Garching, Germany
23, Dec., 2008	<i>The power spectrum measurement</i> The National Cosmology Workshop, TPCSF, CAS, Beijing