

# Julien Chastang

## Curriculum Vitæ

Unidata Program Center  
UCAR Community Program  
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USA

### CONTACT

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URL <http://julienchastang.com>  
Citizenship USA and French

### EDUCATIONAL BACKGROUND

M. Sc. University of Colorado 2000  
B. Sc. University of Colorado 1994

### POSITIONS HELD

2010-	Software Engineer III	Unidata Program Center	UCAR
2006-2010	Software Engineer III	Computational Information Systems Laboratory	UCAR
2000-2006	Software Engineer II	Research Application Laboratory	UCAR
1999-2000	Student Assistant	Research Application Laboratory	UCAR

UCAR is the University Corporation for Atmospheric Research located in Boulder, Colorado  
USA

## PUBLICATIONS

Rocky Dunlap et al. “Earth system curator: metadata infrastructure for climate modeling”. In: *Earth Science Informatics* 1.3 (2008), pp. 59–78. DOI: <http://dx.doi.org/10.1007/s12145-008-0016-1>. URL: <http://link.springer.com/content/pdf/10.1007/2Fs12145-008-0016-1.pdf>

M. Welch, J. Chastang, and M. Yarus. “An inhibitor of ribosomal peptidyl transferase using transition-state analogy”. In: *Biochemistry* 34.2 (1995), pp. 385–390. URL: <https://www.ncbi.nlm.nih.gov/pubmed/7529560>

## AWARDS

2001 UCAR Outstanding Accomplishment Award for Scientific and Technical Advancement

2009 UCAR Special Recognition Award

2014 UCAR Special Recognition Award

## GRANTS

\$20,000	2016	Microsoft Azure for Research cloud computing grant	Principal Investigator
\$425,000	2016	XSEDE cloud computing research grant	Allocation Manager

## CONFERENCE PRESENTATIONS

M. K. Ramamurthy et al. “Unidata and data-proximate analysis and visualization in the cloud”. In: See also <http://jetstream.unidata.ucar.edu>. Earth Science Information Partners. Bloomington, IN, 2017. DOI: 10.6084/m9.figshare.5249839.v1. URL: [https://figshare.com/articles/Unidata\\_and\\_data-proximate\\_analysis\\_and\\_visualization\\_in\\_the\\_cloud/5249839](https://figshare.com/articles/Unidata_and_data-proximate_analysis_and_visualization_in_the_cloud/5249839)

J. Chastang and R. Signell. “Met/Ocean Modeling Workflows on XSEDE via HPC & Cloud”. In: See also <http://jetstream.unidata.ucar.edu>. Earth Science Information Partners. Bloomington, IN, 2017. DOI: 10.6084/m9.figshare.5249845.v1. URL: [https://figshare.com/articles/Met\\_Ocean\\_Modeling\\_Workflows\\_on\\_XSEDE\\_via\\_HPC\\_Cloud/5249845](https://figshare.com/articles/Met_Ocean_Modeling_Workflows_on_XSEDE_via_HPC_Cloud/5249845)

J. Chastang and R. M. May. “Unidata Online Python Training”. In: *Proceedings, Seventh Symposium on Advances in Modeling and Analysis Using Python, 97th AMS Annual Meeting*. See also <http://unidata.github.io/online-python-training>. American Meteorological Society. Seattle, WA, 2017. URL: <https://ams.confex.com/ams/97Annual/webprogram/Paper315368.html>

J. Chastang, T. Yoksas, and M. K. Ramamurthy. “Geoscientific Data Distribution in the XSEDE Jetstream Cloud”. In: *Proceedings, 33rd Conference on Environmental Information*

*Processing Technologies, 97th AMS Annual Meeting*. See also <http://jetstream.unidata.ucar.edu>. American Meteorological Society. Seattle, WA, 2017. URL: <https://ams.confex.com/ams/97Annual/webprogram/Paper315508.html>

J. Chastang, W. Fisher, and S. Arms. “UniCloud: Docker Use at Unidata”. In: *Proceedings, 32nd Conference on Environmental Information Processing Technologies, 96th AMS Annual Meeting*. See also <http://unidata.github.io/Unidata-Dockerfiles/index.html>. American Meteorological Society. New Orleans, LA, 2016. URL: <https://ams.confex.com/ams/96Annual/webprogram/Paper287336.html>

Martin A. Baxter et al. “The Meteorology and Impacts of Superstorm Sandy: Creation of an Educational Case Study Using IDV and RAMADDA”. in: *Proceedings, 30th Conference on Environmental Information Processing Technologies, 94th AMS Annual Meeting*. American Meteorological Society. Atlanta, GA, 2014. URL: <https://ams.confex.com/ams/94Annual/webprogram/Paper234781.html>

Julien Chastang, Y. Ho, and S. C. Arms. “The Integrated Data Viewer (IDV) feature updates”. In: *Proceedings, 29th Conference on Environmental Information Processing Technologies, American Meteorological Society Annual Meeting*. American Meteorological Society. Austin, TX, 2013. URL: <https://ams.confex.com/ams/93Annual/webprogram/Paper221245.html>

## TEACHING EXPERIENCE

I instruct yearly at the Unidata summer and fall training workshops.

## RELATED PROFESSIONAL SKILLS

I specialize in scientific data, metadata, analysis and visualization using a variety of programming languages and open source technologies.

## SELECTED BLOG ENTRIES

J. Chastang. *IPyNB Cookbooks to Create CF-Compliant NetCDF Files*. 2014. URL: [http://www.unidata.ucar.edu/blogs/developer/en/entry/ipynb\\_cookbooks\\_to\\_create\\_cf](http://www.unidata.ucar.edu/blogs/developer/en/entry/ipynb_cookbooks_to_create_cf)

J. Chastang. *Exploring GOES 13 Satellite Data with Python and Emacs*. 2017. URL: <http://julienchastang.com/blog/goes13.html>

J. Chastang. *Plotting Time Series of Weather Observations in Emacs*. 2017. URL: <http://julienchastang.com/blog/weatherobs.html>

## ONLINE VIDEOS

J. Chastang et al. *Unidata IDV Training Videos*. 2013. URL: <http://goo.gl/n0Frpb>

## SELECTED OPEN SOURCE REPOSITORIES

Unidata/xsede-jetstream	<a href="https://github.com/Unidata/xsede-jetstream">https://github.com/Unidata/xsede-jetstream</a>
Unidata/unidata-python-workshop	<a href="https://github.com/Unidata/unidata-python-workshop">https://github.com/Unidata/unidata-python-workshop</a>
Unidata/online-python-training	<a href="https://github.com/Unidata/online-python-training">https://github.com/Unidata/online-python-training</a>
julienchastang/charts4j	<a href="https://github.com/julienchastang/charts4j">https://github.com/julienchastang/charts4j</a>
Unidata/lm-docker	<a href="https://github.com/Unidata/lm-docker">https://github.com/Unidata/lm-docker</a>
Unidata/thredds-docker	<a href="https://github.com/Unidata/thredds-docker">https://github.com/Unidata/thredds-docker</a>
Unidata/ramadda-docker	<a href="https://github.com/Unidata/ramadda-docker">https://github.com/Unidata/ramadda-docker</a>

## LANGUAGES

Fluent in English and French