

February 14, 2011

Prof. Reggie Madjoe
Chair, Department of Physics
University of the Western Cape
Private Bag X17
7535 Bellville
Western Cape Province
South Africa

Dear Prof. Madjoe:

I am writing to apply for the position as assistant professor of English with an emphasis in rhetoric and composition that you advertised in the October MLA Job Information List. I am a graduate student at Prestigious University working on a dissertation under the direction of Professor Prominent Figure. Currently revising the third of five chapters, I expect to complete all work for the Ph.D. by May of 1999. I believe that my teaching and tutoring experience combined with my course work and research background in rhetoric and composition theory make me a strong candidate for the position outlined in your notice.

As my curriculum vitae shows, I have had excellent opportunities to teach a variety of writing courses during my graduate studies, including developmental writing, first-year writing for both native speakers and second language students, advanced writing, and business writing. I have also worked as a teaching mentor for new graduate students, a position that involved instruction in methods of composition teaching, development of course materials, and evaluation of new graduate instructors. Among the most satisfying experiences for me as a teacher has been instructing students on an individual basis as a tutor in our university Writing Lab. Even as a classroom instructor, I find that I always look forward to the individual conferences that I hold with my students several times during the semester because I believe this kind of one-on-one interaction to be essential to their development as writers.

My work in the composition classroom has provided me with the inspiration as well as a kind of laboratory for my dissertation research. My project, *The I Has It: Applications of Recent Models of Subjectivity in Composition Theory*, examines the shift since the 1960s from expressive models of writing toward now-dominant postmodern conceptions of decentered subjectivity and self-construction through writing. I argue that these more recent theoretical models, while promising, cannot have the liberating effects that are claimed for them without a concomitant reconception of writing pedagogy and the dynamics of the writing classroom. I relate critical readings of theoretical texts to my own pedagogical experiments as a writing teacher, using narratives of classroom successes and failures as the bases for critical reflection on postmodern composition theory. After developing my dissertation into a book manuscript, I plan to continue my work in current composition theory through a critical examination of the rhetoric of technological advancement in the computer-mediated writing classroom.

My interest in the computer classroom has grown out of recent experience teaching composition in that environment. In these courses my students have used computers for writing and turning in notes and essays, communicating with one another and with me, conducting library catalogue research and web research, and creating websites. I have encouraged my students to think and write critically about their experiences with technology, both in my class and elsewhere, even as we have used technology to facilitate our work in the course. Syllabi and other materials for my writing courses can be viewed

at my website: [http://machine.prestigious.edu/ name](http://machine.prestigious.edu/name). In all of my writing courses I encourage students to become critical readers, thinkers, and writers; my goal is always not only to promote their intellectual engagement with cultural texts of all kinds but also to help them become more discerning readers of and forceful writers about the world around them.

I have included my curriculum vitae and would be happy to send you additional materials such as a dossier of letters of reference, writing samples, teaching evaluations, and past and proposed course syllabi. I will be available to meet with you for an interview at either the MLA or the CCCC convention, or elsewhere at your convenience. I can be reached at my home phone number before December 19; between then and the start of the MLA convention, you can reach me at (123) 456-7890. I thank you for your consideration and look forward to hearing from you.

Sincerely,

A handwritten signature in black ink, appearing to read "Ken Cavagnolo", written over a light gray rectangular background.

Kenneth Cavagnolo

CURRICULUM VITAE

Observatoire de la Côte d’Azur
Boulevard de l’Observatoire
B.P. 4229
F-06304, Nice, France
+33(0)687098367

Citizenship: U.S.A.
Birthdate: Jan. 27th, 1980
Family: Single; no children
cavagnolo@oca.eu
www.oca.eu/cavagnolo

EDUCATION

Ph.D. Astrophysics, Michigan State University	2008
M.S. Astrophysics, <i>magna cum laude</i> , Michigan State University	2005
B.S. Physics, <i>magna cum laude</i> , Georgia Institute of Technology	2002

EMPLOYMENT

ANR Opales Postdoctoral Fellow, Observatoire de la Côte d’Azur	2010–Present
Waterloo Scholars Postdoctoral Fellow, University of Waterloo	2008–10
Research Assistant, X-ray astrophysics, Michigan State University	2003–08
Research Assistant, Planetary nebulae, Michigan State University	2002–03
Research Assistant, Eclipsing stellar binaries, Georgia Institute of Technology	2000–02

AWARDS & HONORS

- Referee for AJ, ApJ, ApJL, CanTAC, & MNRAS
- Sherwood K. Haynes Award for Outstanding Graduate Student
- MSU College of Natural Science Dissertation Fellow
- Georgia Institute of Technology President’s List
- Georgia Institute of Technology Four Year Dean’s List
- Perimeter Institute Black Hole Reading Group

COLLABORATIONS & MEMBERSHIPS

• IXO Science Associate	2011–Present
• LOFAR, ASKAP (<i>EMU</i> , <i>POSSUM</i>), & SKA-Africa (<i>MEERKAT</i>)	2010–Present
• $\Sigma\Xi$ National Scientific Research Society	2009–Present
• American Astronomical Society	2002–Present
• American Physical Society	2002–Present
• $\Sigma\Pi\Sigma$ National Physics Honor Society	2001–Present

SCIENTIFIC SKILLS

- Expert of astronomical radio and X-ray data reduction, analysis and interpretation
- Extensive experience analyzing IR, optical, UV, and γ -ray data
- Mastery of AIPS, CASA, CIAO, IRAF, OSA, and SAS analysis software
- Fluent in HTML, IDL, \LaTeX , PERL, and PYTHON programming languages
- Familiar with C/C++, FORTRAN, MEQTREES, MYSQL, SUPERMONGO, and TCL
- Command of DOS, Linux, Macintosh, and Windows computing architectures

OBSERVING EXPERIENCE

ASKAP-Boolardy Engineering Test Array (BETA)	2011
Low Frequency Array (LOFAR)	2011
Very Long Baseline Array (VLBA)	2011
Giant Metrewave Radio Telescope (GMRT)	2010
Very Large Array Radio Telescope (VLA)	2009

GRANTS & PROPOSALS

PI, VLBA, “ <i>Imaging the Misdirected QSO of IRAS 09104+4109</i> ”	2010
Co-I, GMRT, “ <i>Power and Particle Content of Extragalactic Radio Sources I–III</i> ”	2008–10
Co-I, GMRT, “ <i>Morphology of Steepest Spectrum Radio Sources in Galaxy Cluster Cores</i> ”	2009
Co-I, NOAO, “ <i>The Supermassive Cluster Survey I–V</i> ”	2008–10
PI, CXO, “ <i>IRAS 09104+4109: An Extreme Brightest Cluster Galaxy</i> ”	2008
Co-I, CXO, “ <i>Conduction and Multiphase Structure in the ICM</i> ”	2008
Co-I, Spitzer, “ <i>Star Formation and AGN Feedback in BCGs</i> ”	2008
Co-I, Spitzer, “ <i>Infrared Properties of a Control Sample of Brightest Cluster Galaxies</i> ”	2008
Co-I, NSF, “ <i>Star Formation in the Universe’s Largest Galaxies</i> ”	2008
Co-I, CXO, “ <i>Quantifying Cluster Temperature Substructure</i> ”	2007
Co-I, NRAO, “ <i>Radio Feedback in Clusters and Galaxies</i> ”	2007

STUDENT ADVISEMENT

C. Kirkpatrick, UW Ph.D., ICM Abundance Distributions	2008–10
M. Rohanizadegan, UW Ph.D., Understanding SMBH Accretion and Spin	2008–10
J. King, NSERC UW-REU, Quantifying Scatter in the $P_{\text{jet}}\text{--}P_{\text{radio}}$ Relation	2010
B. Whuiska, NSERC UW-REU, The Largest BCG Cores in the <i>HST</i> Archive	2009
R. Myers, NSERC UW-REU, Galaxy Cluster Radio Sources in the 400 deg ² Survey	2009

SERVICE & TEACHING

Local Organizing Committee, “ <i>Non-thermal Phenomena in Colliding Galaxy Clusters</i> ”	2010
Local Organizing Committee, UW International Year of Astronomy	2009
Physics Tutor, “ <i>Introductory Honors Physics I & II</i> ”	2003
Substitute Instructor & Teaching Assistant, “ <i>Visions of the Universe</i> ”	2002,03,06

REFERENCES

Prof. Megan Donahue	donahue@pa.msu.edu
Physics and Astronomy Department	1-517-884-5618
Michigan State University	
East Lansing, MI 48824, USA	
Prof. Mark Voit	voit@pa.msu.edu
Physics and Astronomy Department	1-517-884-5619
Michigan State University	
East Lansing, MI 48824, USA	

Prof. Brian McNamara
 Department of Physics and Astronomy
 University of Waterloo
 Waterloo, ON N2L 3G1, Canada

mcnamara@uwaterloo.ca
 1-519-888-4567 ext. 3817

Dr. Chiara Ferrari
 Observatoire de la Côte d'Azur
 Boulevard de l'Observatoire, B.P. 4229
 Nice, 06304, France

ferrari@oca.eu
 33-492003028

Prof. Jack Baldwin
 Physics and Astronomy Department
 Michigan State University
 East Lansing, MI 48824 USA

baldwin@pa.msu.edu
 1-517-884-5611

Dr. Chris Carilli
 National Radio Astronomy Observatory, PO Box O
 Socorro, NM 87801 USA

ccarilli@nrao.edu
 1-575-835-7306

Dr. Paul Nulsen
 Harvard-Smithsonian Center for Astrophysics
 60 Garden Street
 Cambridge, MA 02138 USA

pnulsen@cfa.harvard.edu
 1-617-495-7043

Dr. Mike Wise
 ASTRON Radio Observatory
 P.O. Box 2
 NL 7990 AA Dwingeloo, The Netherlands

wise@astron.nl
 31-521596564

PUBLICATIONS IN PREPARATION

(18) “*Entropy Scaling Relations of ACCEPT Galaxy Clusters*”

K. Cavagnolo, G. M. Voit, M. Donahue, & S. Bruch – In prep. for ApJL

(17) “*How Difficult is SMBH Spin Axis Reorientation? Implications for AGN Feedback Models*”

K. Cavagnolo – In prep. for ApJL

(16) “*Identifying AGN Feedback Relics Via Steep Spectrum Radio Sources*”

R. van Weeren, A. Edge, H. Röttgering, **K. Cavagnolo**, B. McNamara, M. Wise, M. Brüggen, G. Brunetti, & J. Croston – In prep. for A&A

(15) “*The Radio Halo-Merger-Cooling Connection in Galaxy Clusters at $z \sim 0.5$* ”

E. Orrù, C. Ferrari, M. Arnaud, **K. Cavagnolo**, J. Croston, N. Jetha, G. Pratt, E. Pointecouteau, & S. Raychaudhury – In prep. for A&A

(14) “*Normalization and Scatter of the $M-T$ Relation for Supermassive Galaxy Clusters*”

R. Mandelbaum, R. Nakajima, N. Bahcall, G. Bernstein, **K. Cavagnolo**, M. Donahue, J. Hughes, C. Keeton, A. Kravtsov, S. Miyazaki, N. Padmanabhan, & T. Schrabback – In prep. for ApJ

FIRST AUTHOR PUBLICATIONS

(13) “*Direct Evidence of Radiative and Mechanical Feedback from the Quasar in IRAS 09104+4109*”

K. Cavagnolo, M. Donahue, G. M. Voit, B. McNamara, & M. Sun – Accepted to MNRAS 2011

(12) “*A Powerful AGN Outburst in RBS 797*”

K. Cavagnolo, B. McNamara, M. Wise, P. Nulsen, M. Brüggen, M. Gitti, & D. Rafferty – Accepted to ApJ 2011

(11) “*A Relationship Between AGN Jet Power and Radio Luminosity*”

K. Cavagnolo, B. McNamara, P. Nulsen, C. Carilli, C. Jones, & L. Bîrzan – [ApJ Published, 2010](#)

(10) “*Intracluster Medium Entropy Profiles for a Chandra Archival Sample Of Galaxy Clusters*”

K. Cavagnolo, M. Donahue, G. M. Voit, & M. Sun – [ApJ Published, 2009](#)

(9) “*An Entropy Threshold for Strong $H\alpha$ and Radio Emission in the Cores of Galaxy Clusters*”

K. Cavagnolo, M. Donahue, G. M. Voit, & M. Sun – [ApJ Published, 2008](#)

(8) “*Bandpass Dependence of X-Ray Temperatures in Galaxy Clusters*”

K. Cavagnolo, M. Donahue, G. M. Voit, & M. Sun – [ApJ Published, 2008](#)

CO-AUTHORED PUBLICATIONS

(7) “*Anisotropic Metal-enriched Outflows Driven by AGN in Clusters of Galaxies*”

C. Kirkpatrick, B. McNamara, & **K. Cavagnolo** – Accepted to ApJL 2011

(6) “*Direct Evidence for an Outflow of Metal-Enriched Gas Along the Radio Jets of Hydra A*”

C. Kirkpatrick, M. Gitti, **K. Cavagnolo**, B. McNamara, L. David, P. Nulsen, & M. Wise – [ApJL Published, 2009](#)

(5) “*A Chandra X-ray Analysis of Abell 1664: Cooling, Feedback and Star Formation in the Central Cluster Galaxy*”

C. Kirkpatrick, B. McNamara, D. Rafferty, P. Nulsen, L. Birzan, F. Kazemzadeh, M. Wise, M. Gitti, & **K. Cavagnolo** – [ApJ Published, 2009](#)

(4) “*Conduction and the Star Formation Threshold in Brightest Cluster Galaxies*”

G. M. Voit, **K. Cavagnolo**, M. Donahue, D. Rafferty, B. McNamara, & P. Nulsen – [ApJ Published, 2008](#)

(3) “*Star Formation, Radio Sources, Cooling X-Ray Gas and Galaxy Interactions in the Brightest Cluster Galaxy in 2A0335+096*”

M. Donahue, M. Sun, C. O’Dea, G. M. Voit, & **K. Cavagnolo** – [AJ Published, 2007](#)

(2) “*s-Process Abundances in Planetary Nebulae*”

B. Sharpee, Y. Zhang, R. Williams, E. Pellegrini, **K. Cavagnolo**, J. Baldwin, M. Phillips, & X. Liu –

[ApJ Published, 2007](#)

(1) “*Entropy Profiles in the Cores of Cooling Flow Clusters of Galaxies*”

M. Donahue, D. Horner, **K. Cavagnolo**, & G. M. Voit – [ApJ Published, 2006](#)

PRESENTED WORK

Michigan State University; Seminar Invited Talk: “ <i>The Future of Joint X-ray/Radio Studies of Galaxy Clusters and Groups</i> ”	April 2011
National Radio Astronomy Observatory-Socorro; Seminar Talk: “ <i>Pushing the Limits: Powerful AGN in Galaxy Clusters</i> ”	March 2011
UC Santa Barbara, Kavli Institute; Astrophysics and Cosmology with Galaxy Clusters Poster: “ <i>Probing the Quasar/Radio-mode Feedback Dichotomy with IRAS 09104+4109</i> ”	March 2011
University of Wisconsin-Madison; The Monster’s Fiery Breath Meeting Talk: “ <i>The AGN Jet Power and Radio Power Relationship</i> ”	June 2009
University of Waterloo; Seminar Invited Talk: “ <i>Using Galaxy Clusters as Galaxy Formation Labs</i> ”	October 2008
Leiden University; The Cool, Cooler, and Cold Meeting Invited Talk: “ <i>Understanding Cluster Cores: The Role of Core Entropy</i> ”	September 2008
Center for Study of Cosmic Evolution; Seminar Invited Talk: “ <i>Investigating Feedback and Relaxation in Clusters of Galaxies</i> ”	July 2008
University of Waterloo; Seminar Invited Talk: “ <i>From Cluster Cosmology to Galaxy Formation in Under One Hour</i> ”	March 2008
NASA Space Science and Technology Center; Seminar Invited Talk: “ <i>The Effect of AGN Feedback on High-Precision Cosmology</i> ”	February 2008
Center for Study of Cosmic Evolution; Seminar Invited Talk: “ <i>Understanding Feedback in Galaxy Clusters</i> ”	January 2008
University of Michigan; Seminar Invited Talk: “ <i>Band Dependence of X-ray Temperatures</i> ”	October 2007
University of Alabama-Huntsville; Eight Years of Science with Chandra Meeting Poster: “ <i>The Entropy-Feedback Connection and Quantifying Cluster Virialization</i> ”	October 2007
American Astronomical Society Meeting Poster: “ <i>Chandra Studies of Dark Matter and Galaxy Formation: Signatures from the ICM</i> ”	December 2006

International Astronomical Union Symposium

July 2006

Proceeding: “*Abundances of s-process elements in planetary nebulae: Br, Kr & Xe*”

American Astronomical Society Meeting

December 2005

Poster: “*Studies of Entropy Distributions in X-ray Luminous Clusters of Galaxies*”

American Astronomical Society Meeting

December 2004

Poster: “*Entropy Distributions in the Cores of Nearby X-ray Luminous Clusters of Galaxies*”

American Astronomical Society Meeting

December 2004

Poster: “*Radio-Free Cluster Cooling Flows*”

DESCRIPTION OF RESEARCH ACTIVITIES

The description should make clear the applicants role in the activities presented, and the research results should also be described within an international perspective. The description should include an assessment of the applicants independence and productivity.

PERSONAL ASSESSMENT

The applicant should describe his or her own personality in a manner that makes it possible to assess the ability to work with others, and the suitability for employment as described in the job announcement.

DESCRIPTION OF THREE AND FIVE YEAR RESEARCH PROGRAMS

DESCRIPTION OF TEACHING EXPERIENCE