Dear Sir or Madam:

While successful in my career as a researcher, it is clear that the aspects of my work which I find most rewarding are many of the very same objectives listed for employment with RES as an Energy Resource Engineer (ref# 6022): data analysis, project design/development, and effective professional communication. While at first glance my application may differ from a typical candidate's profile, I bring to the table a unique skill set that is both transferable and relevant to the needs of RES:

- High-level understanding of physics, computing, and complex mathematics
- · Self-motivated, fast, independent, and enthusiastic learner
- Demonstrated success in communicating and working with diverse personalities and groups
- A desire to use my time and abilities to improve my work environment and the quality of service to customers

I thrive in dynamic work environments emphasizing creative thinking, attention to detail, and collaborative efforts, and your team will find me to be a valuable, motivated, and fully dedicated addition. Should you have any further questions regarding my candidacy, please contact me via phone (+33954444887) or email (kencavagnolo@gmail.com). I welcome the opportunity to further pursue this position and look forward to hearing from you.

Thank you for your consideration.

Sincerely, Kenneth Cavagnolo

Kenneth W. Cavagnolo

8 place AUGUSTE BLANQUI • Nice, PACA France • 06300 +33(0)687098367 • kencavagnolo@gmail.com

Objective

To earn employment in a dynamic environment where I can apply my analytic and computational skills to constructing creative solutions for complex problems.

Professional Profile

- Excellent professional record of verbal and written communication skills.
- Profound skills in reducing, analyzing, interpreting, and presenting data.
- Trained in quantitative analysis, designing research projects, and creative problem solving.
- Formal graduate level education in applied mathematics, probability, and statistics.
- Mastery of classical mechanics, electromagnetism, and statistical mechanics.
- Strong programming abilities in IDL, Perl, Python, Tcl, C; fluent in HTML, Flash, LaTeX.
- Extensive experience with MS Office, OpenOffice, Adobe Suite, iLife, and X11.
- Mastery of MS Windows, Unix/Linux/Ubuntu, and Macintosh computing architectures.
- Expert in computer systems troubleshooting, maintenance, and construction.
- Comfortable with large collaborations, building professional relationships, and peer communication.

Education

| Ph.D. Astrophysics • Michigan State University | 2005 - 2008 |
|--|----------------|
| M.S. Astrophysics • Michigan State University | 2002 - 2005 |
| B.S. Physics • Georgia Institute of Technology | 1998 - 2002 |
| College Preparatory Degree • South Forsyth High School | 1994 - 1998 |
| Professional Experience | |
| Postdoctoral Research Fellow • Observatoire de la Côte d'Azur | 2010 - present |
| Postdoctoral Research Fellow • University of Waterloo | 2008 - 2010 |
| Graduate Research Assistant • Michigan State University | 2003 - 2008 |
| Substitute Instructor • Michigan State University | 2006 |
| Honors Physics Tutor • Michigan State University | 2003 |
| Graduate Teaching Assistant • Michigan State University | 2002 - 2003 |
| Undergraduate Research Assistant • Georgia Institute of Technology | 2000 - 2002 |

Awards and Honors

- Referee for premier professional astronomical publications e.g. ApJ, AJ, MNRAS
- Sherwood K. Haynes Award for Outstanding Graduate Student
- MSU College of Natural Science Dissertation Fellow
- American Astronomical Society Member
- American Physical Society Member
- Sigma Xi Member, National Honors Research Society
- Sigma Pi Sigma Member, National Physics Honor Society
- Four Year Dean's List at Georgia Institute of Technology

Selected Professional Publications (hyperlinked)

- "A Relationship Between AGN Jet Power and Radio Power" ApJ 2010
- "Intracluster Medium Entropy Profiles for a Chandra Archival Sample of Galaxy Clusters" ApJ 2009
- "An Entropy Threshold for Strong Hα and Radio Emission in the Cores of Galaxy Clusters" ApJ 2008.
- "Bandpass Dependence of X-Ray Temperatures in Galaxy Clusters" ApJ 2008