Carmela Morrone

Phd Student - Molecular and Cell Biology, Pathology, Biochemistry

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DOCTORAL RESEARCH

"Identification and testing of new therapeutic targets for the prevention of chronic lung allograft dysfunction."

My research examined the use of ELW pulses from a mode-locked source array inducted through transuranic crystals to observe entanglement on supraquantum structures. Theoretical advancements included prediction of quantum resonance phenomena including the possibility of resonance cascades. I was motivated to conduct this doctoral research due to my passion for teleportation of matter and I believe I have laid the foundation for further experimental validation and development of practical outcomes.

WORK EXPERIENCE

CURRENT, FROM JAN 1995 (FT)

Black Mesa Research Facility
Team Leader (Anomalous Materials)

As part of this promotion, I began conducting nuclear and subatomic research in the Anomalous Materials department. My team and I are particularly interested in dimensionality and its interaction with spacetime. The focus is on practical outcomes and applications in teleportation and communication with distal locations.

FEB 1991 – JAN 1995 (FT)

Black Mesa Research Facility
Level 3 Research Associate

This position involved transitioning from purely theoretical work to experimental applications utilising the immense resources of Black Mesa. The transition required an initial learning curve in hazard containment, health and safety procedures and operating experimental infrastructure. Manipulating valves, carts, buttons, levers, etc considerably increased my physical fitness.

JUL 1982 – DEC 1984 (PT)

WashPests Limited
Pest Control Technician

In this summer job I was tasked with helping eradicate pests from industrial areas. Work involved setting traps, spraying and physical eradication. I received praise for reaching difficult areas and my innovative use of a crowbar to assist in my work.

REFERENCES

Dr. Isaac Kleiner

POSITION Professor
EMPLOYER Department of Physics
Massachusetts Institute of Technology

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EDUCATION

1986 – 1990 **Doctor of Philosophy**
Theoretical Physics
Massachusetts Institute of Technology

1985 **Master of Science**
FIRST CLASS HONOURS
Theoretical Physics
Massachusetts Institute of Technology

1982 – 1984 **Bachelor of Physics**
Department of Physics
The University of Washington

AWARDS

1985 **Faculty of Science Masters Scholarship**
Massachusetts Institute of Technology

1983 **Top Achiever Award – Physics**
The University of Washington

COMPUTER SKILLS

BEGINNER Java, MS DOS

INTERMEDIATE Javascript, Python, HTML, CSS, Microsoft Windows Computer Hardware & Support

EXPERT Perl, Unix, LaTeX

COMMUNICATION SKILLS

CONFERENCES Oral Presentation at the Annual MIT Theoretical Physics Conference – 1987

POSTERS Poster at the Meeting of the American Physical Society – 1985

SKILLS

Goal Oriented

I believe in action over long-winded discussions. I listen to everyone's viewpoints and use my judgement to immediately act based on consensus to achieve goals quickly and efficiently.

Physical Dexterity

Manual manipulation of experimental equipment and training within Black Mesa (e.g. the Hazard Course) have contributed to an enjoyment of working with my hands.

Passionate

I have been interested in theoretical physics such as quantum mechanics and relativity from an early age. My edu-

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Dr. Eli Vance

POSITION Scientist (HL1)
EMPLOYER Black Mesa Research Facility

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cation and research have cemented this interest into a passion. I greatly enjoy carrying out fundamental physics research with potential practical applications.

PUBLICATIONS

Freeman, G. R. (1996). Chemistry of Multiply Charged Negative Molecular Ions and Clusters in the Gas Phase: Terrestrial and in Intense Galactic Magnetic Fields. *The Journal of Physical Chemistry*, *100*(11), 4331-4338.

Jacobsen, F. M., Gee, N., **Freeman, G. R.** (1986). Electron mobility in liquid krypton as function of density, temperature, and electric field strength. *Physical Review A*, *34*(3): 2329-2335.

1996 **doi:10.1021/jp951483+**
1990 **doi:10.1139/p90-097**
1986 doi:10.1139/v86-297
1986 doi:10.1103/PhysRevA.34.2329

First author publications in **bold**