# Andrew J. Osgood

San Diego, CA                                              drew@andrewosgood.com

I specialize in bringing order and creative data-driven scientific solutions to unstructured problems throughout a wide range of both DoD and scientific areas, thanks to more than a decade of experience in research and analysis.[1]

## <u>CNA Field Analyst to NMAWC</u>                    **August 2010 - Current**

*NMAWC (Naval Mine and Anti-Submarine Warfare Command)* - San Diego, CA
*CNA (Center for Naval Analyses)*

Produced flag-level, data-driven, objective analytical products focused on mine and undersea warfare and countermeasures, operations research and analysis, and ship and shore-side exercise support
- Developed and executed systems testing and CONOP/CONEMP validation events with program-level influence
- Led data collection, reconstruction and analysis for force-level assessments
- Initiated major revisions of reconstruction and assessment methodologies
- Developed proposals for major Navy-funded CNA studies
- US DOD Security Clearance

## <u>Research Scientist</u>                          **June 2008 - August 2010**

*CNA* - Alexandria, VA

Conducted objective independent and group analytical projects for the US Navy and Marine Corps including:
- Naval aviation reserve recapitalization – helped determine cost-effective recapitalization strategies
- Major naval weapons systems AoA – developed and evaluated complex system comparison matrices as a fundamental step in the acquisition process
- Combat logistics force efficiency and use – found and documented potential efficiencies through data base management and analyses
- Operations analyses – embarked during operations to gather data and observations for force-flow studies

## <u>Graduate Research Assistant</u>                 **August 2002 - June 2008**

*Rice University* - Houston, TX
Ph.D. and M.S. in applied physics - molecular nanomechanics

Conducted independent research focused on low temperature and ultra-high vacuum atomic- and molecular-scale surface characterization and manipulation techniques
- Developed new techniques, experiments, theories, and research tracks for novel nanoscale surface systems
- Performed extensive data and image analysis with various commercial software
- Developed novel image processing algorithm to exploit physical phenomena previously unexplored in STM image analysis

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[1]For more detail, please visit http://www.andrewosgood.com