

## Nariman Arfai, Ph.D.

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### EDUCATIONS

- 2010** Ph.D.\* Experimental Psychology (Cognitive, Behavioral Neuroscience), University of New Mexico, Albuquerque, New Mexico (UNM).  
**2002** M.S. Experimental Psychology (Cognitive, Behavioral Neuroscience), UNM.  
**1999** B.A. Psychology, University of California, Los Angeles (UCLA) and Santa Monica Community College (SMC), California.

### LANGUAGES

Ability to speak fluently and teach in following languages: German, Farsy (Persian, and Afghan-dari) and English. I am also able to aid students in following languages, and Urdu (Pakistani).

### TEACHING HISTORY

Please see appendix A for comprehensive teaching history and student course evaluation.

<u>CNM</u>	<u>Courses</u>	<u>Frequency/Section</u>
2005-15	Psychology 1105: Introduction to Psychology	54
	Psychology 1105: Introduction to Psychology-online	36
	Psychology 1130: Applied Behavioral Psychology	4
	Psychology 2096: Psychology of Drug	1
	Psychology 2220: Developmental Psychology (life span)	21
	Psychology 2240: Brain and Behavior	12
	Psychology 2260: Learning & Memory	2
 <u>UNM</u>		
2003-09	Psychology 105: Introduction to Psychology	2
	Psychology 200: Statistic Principles	7
	Psychology 232: Research and Design	1
	Psychology 240: Brain and Behavior	13
	Psychology 265: Cognitive Psychology	2

## HONORS & AWARDS

2012	Excellence Employee Award-excellence in collegiality, CNM
2011	Excellence Faculty Award-excellence in teaching, CNM
2010	Experimental Psychology Doctorate with distinction*, UNM
2007	Benjamin Franklin Haught Endowed Scholarship, UNM
2006	Quad-L Foundation Fellowship, UNM
2001-06	Research, Project, and Travel Grants (RPT), UNM
2000-02	Research Allocations Committee (RAC) Grants, UNM
1998-99	Dean's recognition awards, UCLA
1997-99	Dean's lists, UCLA
1997-99	Vice provost awards, UCLA
1997-98	Center of Academic Research Excellence (CARE) Scholarships, UCLA

## ACADEMIC SERVICES

2014-16	Academic Senate Committee, Communication, Humanities, and Social Sciences representative, CNM
2012-14	Founder and primary advisor Psychology Club (PsyClub), CNM
2012-14	Student Engagement project Ex. Committee, CNM
2012-13	Strategic Planning & Monitoring, CNM
2011-13	Inclusive Excellence (diversity) Ex. Committees, CNM
2010-13	Communication, Humanities, & Social Sciences Curriculum Committee, CNM
2010-13	Primary Advisor Alpha Upsilon Chi-CNM charter of Phi Theta Kappa International Honor Society
2010-15	Psychology Instructor's Assessment Committee, CNM
2008-09	Psychology PT Hiring Committee, CNM

### In details:

- 2013-14** - lunched our pilot of the Student Engagement Mentoring Project in summer 2014. In this mentorship project, we are pairing at risk students with volunteer faculty mentor who will guide them through academia. In our diversity project, we are conducting multiple training session and workshop for new employees and expanding to a demonstration of "what is inclusive excellence and why diversity matters to students" during their CNM orientation. I am also currently serving our college as a member of Communication, Humanities and Social Sciences Curriculum committee and primary advisor to our Psychology Club.
- developed the topic course Psychology and Drugs and began teaching it in spring of 2014. I was pleased to find that the Education Department has requested to add this course to their main curriculum for the social worker program and licensing. In this period, I also completed a new topic course application for Psychology and Law, adopted a text, and began preparing the enhanced lecture presentations for this class.
- 2010-12** - reviewed four texts and created two new topic courses in this period (Psychology of Drugs and Psychology and Law). I also developed on-line shell/classes (using presentation software such as Profcast.1) for Psychology 2240 (Brain and Behavior).

- 2008-10** - completed the CNM course for online instructors and coordinated a series of extracurricular activities to enrich students' understanding of psychology (e.g., tallying behavior of how much food they are throwing away against their shopping receipts, or recognizing activities of mothers)
- 2005-07** - designed a series of reflection sheets for each chapter to increase student's attention and to encourage active learning behavior during lectures. I also integrated daily assessments and extra credit quizzes in order to enhance student's weekly retention. I've redesigned two courses and their lectures for diverse range of learners, including English and non-English speakers.
- 2004** - implemented series of extracurricular practicum and handouts for test making/taking and self-regulation (e.g., creating group psychological test bank—"test-makers are better test takers"), matching learning strategy (e.g., how to study mathematics vs. biology vs. psychology, etc.), retention (e.g., memory techniques, such as advance imagery).
- 2003-13** - prepared series of time sequenced-enhanced lecture presentations for multiple psychology courses/texts including, General Psychology, Brain & Behavior, Behavioral Statistics, Learning & Memory, Developmental, Cognitive Psychology, and Psychology of Drug (i.e., every chapter). I've designed and taught in multiple online platforms, such as WebCT, Blackboard, and Canvas for two courses. I've continued to coordinate "Psychology Active Community Teaching", as well as mentoring multiple students (e.g., A.Valdez M.PT, Dr. C. Keller, Dr. M. Wilson and ...), in pursue their goals in higher education. I've also facilitated training opportunities for several students as research and project assistants in universities such as UNM, UCSD and Columbia University.
- 2002** - reviewed five texts for brain and behavior and Bio-psychology courses and created enhanced/DL<sup>1</sup> unix-lectures for each chapter. I've also complete psychology teaching courses and seminars for Psychology instructor's certification.

### **PRESENTATIONS & CONFERENCES**

- 2012 & 13** N. Arfai<sup>1</sup>, "PACT-Psychology Active Community Teaching". 1<sup>st</sup> Annual conference of teaching and learning, CNM.
- 2012** P. Etre-Perez<sup>1</sup>, Nichole Rogers<sup>2</sup>, N. Arfai<sup>2</sup>, P. Marquez-Garcia<sup>3</sup>. "Diversity-Inclusive Excellence: Where does CNM Stands? 1<sup>st</sup> Annual conference of teaching and learning, CNM.
- 2010** N. Arfai<sup>1</sup>, V. P. Clark<sup>2</sup>, M. R. Wilson, A. J. Wallace<sup>2</sup> "Accelerating recovery of behavioral & cognitive functions via single intracerebral injection of neurotrophic factors after somatosensory contusion in adult rats." (Society For Neuroscience, SFN- Washington DC.)
- 2008** Why diversity matters? 1st Annual *Southwest Seminar* for Great Teaching. Taos, New Mexico.
- 2003 & 06** N. Arfai<sup>1</sup>, RJ. Sutherland<sup>2</sup>. "Effect of rerouting rostral migratory stream on recovery of motor functions after medial frontal damage in rats recovery of function in rats". (P.A.L lecture series, UNM x4\_SFN- New Orleans, LA and Tampa, FL).
- 2000** N. Arfai<sup>1</sup>, F. Krasne<sup>2</sup>. "Effect of the serotonin (5HT) on chronically implanted crayfish who subordinate is established pre and post nerve cord severance". (SFN- San Diego, CA)
- 1998** A.Hunter<sup>1</sup> N. Arfai<sup>2</sup>, T. Minor<sup>1</sup>. "Intercortical injection of the glutamate in cingulate\_cortex of rats with in 24 and 48 hours produced "Helplessness" (SFN- Los Angeles, CA)
- 1997** N. Arfai<sup>1</sup>, A.Hunter<sup>2</sup>, T. Minor<sup>1</sup>. "Intercortical injection of the glutamate in prefrontal\_cortex of rats with in 24 hour produced "Helplessness". University of California Neuroscience Conference- Los Angeles. (Id# 177).

## **RESEARCH EXPERIENCE**

- 2002-2014 (UNM/CNM) “PACT-Psychology Active Community Teaching”** comparative analysis of team-based learning (outside of classroom) versus group structured discussions (in classroom) demonstrating testing effect in student’s assessment performances, average success rate/probability and retention. This research supported by data from three different classes, over ten years period and was presented at 1<sup>st</sup> Annual *conference of teaching and learning* (encore April 19<sup>th</sup>, 2013), CNM.
- 2011-2012 (CNM, Diversity-Inclusive Excellence):** Collaboration with Dr. Etre-Perez` (Dean of SAGE), Mrs., Rogers and Marquez-Garcia for the 1<sup>st</sup> Annual *conference of teaching and learning. Where does CNM Stands?* Central New Mexico Community College. My contribution involved statistical analysis of CNM faculty (i.e., Ft vs. Pt) racial population in compare to our student’s population (i.e., data from CNM Human Resources, 2005 and 2011).
- 2003-2010 (UNM, Psychology & Medical/ Neuroscience):** Collaboration With Dr. Vincent Clark (Imaging/Neuroscience) and Dr. Wallace (Medicine/Neuroscience) to replicate and extend our previous investigations on recovery of functions after sensorimotor cortical contusion of manipulating progenitor’s differentiations”). The current study is using biodegradable Mitra-gel to deliver growth factors directly to the site of lesion. This modification allows us to produce more accurate three-dimensional histological map of rerouting process (i.e., the first of his kind). In addition, our new design of study is allowing us to test effect of three different types of growth factors (i.e., VEGF, EGF & FGF-2) of growth and specific progeny of stem cells (i.e., Pyramidal Neurons, astrocytes A & B, and Microglia)
- 2000-2003 (UNM, Psychology & Canadian Center for Behavioural Neuroscience):** Collaboration with Dr. Robert Sutherland (Behavioral Neuroscience) to investigate the effect of manipulating stem cells differentiation using a novel surgical procedure bridging on recovery of behavioral function after medial frontal cortical aspiration in rats. Bridging (or connecting) rostral migratory stream where mammalian adult stem cells flow, to the site of cortical injury, via a synthetic implant (i.e., containing growth factors) can attract the adult stem cells to the site of the injury; thus, reducing the dysfunction associated with neuronal loss in the site injury. Our positive behavioral results strongly suggested that bridging reduces the behavioral dysfunctional associated with the neuronal loss in injured pre-medial cortex of rats.
- 1999-2001 (UNM, Psychology and Center of Alcoholism, Substance Abuse & Addiction-CASAA):** Collaboration with Dr. William Miller and Dr. Judith Arroyo, (EX. medical management training) Licensing and training medical doctors and interns to become alcoholics therapists (i.e., motivational enhancement therapy (MET) and Motivational interviewing (MI)). I was also in charge of comparative analyzing 14 years of data collect at New Mexico site of “Combine MI Alcoholism Treatment project” an NIAAA published project.
- 1999-2000 (UNM, Psychology & School of Medicine):** Collaboration with Dr. Charles Gasparovic (Medical Science/Biophysics) and Dr. Feeney (Behavioral Neuroscience). This research investigated the contribution of metabolic depression, in the absence of DAI or cell death, to remote NAA reduction after TBI. This study showed that reversible NAA reduction is likely to reflect compromised but recoverable neuronal function at a remote cortex region and thus may be diagnostically useful in distinguishing lethal from sublethal neuronal injury.

**1997-1999 (UCLA, Psychology):** Collaboration with Dr. Franklin Krasne (Behavioral Neuroscience) and Dr. Terry Teshiba (Bio Chemistry) that investigated the effect of the serotonin on escape response during agnostic encounters between subordinate and dominate crayfish. This research shown that the effect of low 5-HT concentrations of serotonin (gradually increased) is different, if crayfish live with a socially dominant partner. Serotonin was shown to attenuate rather than facilitate EPSPs in lateral giant nerve.

**1996-1997 (UCLA, Psychology):** Collaboration with Dr. Thomas Minor and Dr. Amiee Hunter (learning & memory). Reversing learned helplessness via direct cortical injection of caffeine in rats. Results of this study added to the growing literature indicating involvement of glutamatergic processes and frontal cortical regions in depression.

## **PUBLICATION**

**2010-2** N. Arfai<sup>1</sup>, V. P. Clark<sup>2</sup>, M. R. Wilson, A. J. Wallace<sup>2</sup> “Accelerating recovery of behavioral & cognitive functions via single intracerebral injection of multiple neurotrophic factors after somatosensory Contusion in Adult Rats." National Library of Congress.

**2000** C. Gasparovic<sup>1</sup>, N. Arfai<sup>2</sup>, N. Smidt<sup>3</sup>, S. Rai<sup>3</sup>, S., D. Feeney<sup>1</sup>. “Depression and recovery of N-Acetylaspartate/Creatine in undamaged cortex after traumatic brain injury. [Journal of Neurotrauma.v32-3, 241-6.](#)

**1999** N. Arfai <sup>1</sup>, A.Hunter<sup>2</sup>, T. Minor<sup>1</sup>, “Adenosine mediates shuttle escape deficits one hour but not 72 Hours following glutamate cannulated injection into the frontal cortex”. ([SFN abstract id# 277.8](#) & Journal of Neuroscience)

### **-Abstracts**

**2008** N. Arfai<sup>1</sup>, V. P. Clark<sup>2</sup>, M. R. Wilson, A. J. Wallace<sup>2</sup> Wallace “Accelerating recovery of behavioral & cognitive functions via single intracerebral injection of various neurotrophic factors after somatosensory Contusion in Adult Rats." ([Society For Neuroscience \(SFN\), id#, 164.75](#)).

**2002** N. Arfai <sup>1</sup>. RJ. Sutherland <sup>2</sup>. Insertion of filaments coated with growth factors into frontal cortex lesions accelerates. [Society of Neuroscience International Conference \(SFN, id#700.8\)](#)

**1999** N. Arfai <sup>1</sup>, F. Krasne <sup>2</sup>, “Effect of the serotonin (5HT) on chronically implanted crayfish who subordinate is established pre and post nerve cord severance”. ([SFN abstract, id# 69.13](#)).