

Curriculum Vitae
Marcela P. Aliste, Ph.D., MS, ACUE

Assistant Teaching Professor
Program Director – Master Advanced Study in Health Informatics
College of Health Solutions
Arizona State University

Contact Information

Arizona State University
College of Health Solutions
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CV Revised May 2023

Education

- **Master of Sciences in Biomedical Informatics** 2017
Arizona State University, Phoenix, AZ
Applied Project: Data sharing preferences of Latinx behavior health patients.
- **Doctor of Philosophy in Chemical Sciences** 1999
University of Chile, Santiago, Chile.
Dissertation: Interaction Between Dopamine and Agonist with the D2 Dopaminergic Receptor
- **Graduate Scholar School of Biology, University of Bath, Bath, England.** 1996
Honors: Graduate research scholarship from British Council (UK)
National Commission for Scientific and Technological Research (Chile)
- **Bachelor of Science in Chemistry** 1993
University of Chile, Santiago, Chile.
Area of focus: Theoretical Organic Chemistry
Graduate Summa Cum Laude
2nd in her promotion
Thesis: Theoretical models of hydrogen bonds in amino acids.
Honors: Dean List and President of the Republic Scholarship

Professional Experience

Work Experience

- **Assistant Teaching Professor** 11/2022-Present
College of Health Solutions, Arizona State University, Phoenix, AZ
- **Lecturer** 5/2019-11/2022
College of Health Solutions, Arizona State University, Phoenix, AZ

- **Instructor** 8/2018-4/2019
School of Molecular Science, College of Liberal Arts and Sciences, Arizona State University, Tempe, AZ
- **Research Associate** 2016-2017
Mayo Clinic, Phoenix, AZ
- **Instructional Professional in Chemistry** 8/2014-7/2018
College of Integrative Sciences and Arts – Arizona State University Polytechnic Campus, Mesa, AZ
- **Adjunct Faculty of Chemistry** 1/2013-Present
Department of Physical Sciences, Phoenix College, Phoenix, AZ
- **Adjunct Professor in Chemistry** 8/2012- 7/2014
College of Science, Engineering, and Technology Grand Canyon University, Phoenix, AZ
- **Postdoctoral Research Fellow** 10/2003-6/2006
Georgia Institute of Technology, School of Biology, Atlanta, GA
- **Visiting Scholar** 1/2003 & 1/2004
Department of Chemistry, Faculty of Science, Universidad de Chile.
- **Postdoctoral Research Fellow** 5/2001-10/2003
Department of Biochemistry University of Calgary, Calgary, AB, Canada
- **Lecturer** 3/2000-4/2001
Department of Natural Sciences, U. Nacional Andres Bello, Santiago, Chile
- **Lecturer** 3/1998-4/2001
Bachelor Program in Sciences, Universidad of Chile, Santiago, Chile.

Administrative Responsibilities

- **Elected University Senator** May 2023
- **Program Director MAS Health Informatics** 1/2020-Present
College of Health Solutions, Arizona State University
- **Academic Program Lead** 5/2019-6/2022
College of Health Solutions, Arizona State University
- **BMI Undergraduate Internship Coordinator** 5/2019-6/2021
College of Health Solutions, Arizona State University
- **Liaison with HIMSS National and Arizona Chapter** 5/2019-Present
College of Health Solutions, Arizona State University
- **ASU representative for AMIA-ASU Academic Forum Partnership** 5/2019-12/2020
College of Health Solutions, Arizona State University

Professional Membership

- HIMSS - Healthcare Information and Management Systems 2019-Present
- AMIA, former American Medical Informatics Association 2020
- ACS - American Chemical Society 2003-2007
- Biophysical Society 2001-2006

Teaching

Instructional Faculty Teaching Experience at ASU (2014-Present)

The classes listed are only for the College of Health Solutions (2019-Present)

Year	Semester	Session	Modality	Course Prefix: Name	# students
2023	Summer	C	Online	HCD 300: Biostatistics	41
		C	Online	BMI 593: Applied Project	2
	Spring	C	Lecture	BMI 211: Modeling Biomedical Decisions	13
		C	Lecture	BMI 410: Database Management in Health Care	20
		C	Online	BMI 593: Applied Project	18
C	Online	BMI 593: Applied Project	1		
2022	Fall	A	Online	BMI 601: Fundamentals of Health Informatics	39
		B	Online	BMI 201: Introduction to Clinical Informatics	51
		B	Online	BMI 614: Current Perspectives Health Informatics	3
	Summer	C	Online	BMI 593: Applied Project	10
		C	Online	BMI 614: Current Perspectives Health Informatics	23
	Spring	C	Lecture	BMI 201: Introduction to Clinical Informatics	11
		C	Lecture	BMI 211: Modeling Biomedical Decisions	13
		C	Lecture	BMI 410: Database Management in Health Care	10
		C	Online	BMI 593: Applied Project	13
		B	Online	BMI 604: Health Info Communication	31
2021	Fall	A	Online	BMI 601: Fundamentals of Health Informatics	40
		B	Online	BMI 201: Introduction to Clinical Informatics	84
		C	Lecture	HCD 300: Biostatistics	34
	Summer	C	Online	BMI 593: Applied Project	21
		C	Online	BMI 595: Continuing Registration	2
	Spring	A	Online	BMI 601: Fundamentals of Health Informatics	40
		B	Online	BMI 615: Human Factors Eng. Biome App	37
		C	Online	BMI 593: Applied Project	15
		C	Online	BMI 595: Continuing Registration	1
		C	Lecture	BMI 410: Database Management in Health Care	19
2020	Fall	B	Online	BMI 614: Current Perspectives Health Informatics	4
		C	Lecture	BMI 201: Introduction to Clinical Informatics	22
		C	Lecture	BMI 332: Team Dynamics Healthcare IT	19
		C	Online	BMI 593: Applied Project	20
		C	Lecture	HCD 300: Biostatistics	49
	Summer	C	Online	BMI 201: Introduction to Clinical Informatics	22
		C	Online	BMI 593: Applied Project	13
	Spring	B	Online	BMI 201: Introduction to Clinical Informatics	73
		C	Lecture	BMI 410: Database Management in Health Care	16
		C	Online	BMI 593: Applied Project	14
C		Online	BMI 595: Continuing Registration	1	
2019	Fall	B	Online	BMI 201: Introduction to Clinical Informatics	107
		C	Lecture	BMI 332: Team Dynamics Healthcare IT	26
		C	Online	BMI 593: Applied Project	13
		C	Online	BMI 482: Capstone I	6
		C	Online	BMI 483: Capstone II	6
	Summer	C	Online	BMI 201: Introduction to Clinical Informatics	24
		C	Online	BMI 593: Applied Project	17

Research

Publications

1. Choudhary, G., **Aliste, M.P.**, Tieleman, D.P., French, R.J. and Dudley, S.C. Docking orientation of μ -conotoxin GIIIA in the sodium channel outer vestibule. (2007) *Channels* **1**, 344.
2. Catte, A., Patterson, J. C., Bashtovyy, D., Su, Z. Li, L., Gu, F., Jerome, W.G., Chen, J., Jones, M.K., **Aliste, M.P.**, Harvey, S. C. Weinstein, G. and Segrest, J. P. (2006). Novel changes in discoidal high-density lipoprotein morphology: A molecular dynamics study. *Biophys. J* **90**, 4345.
3. **Aliste, M.P.** and Tieleman, D.P. (2005). Computer simulation of the partitioning of ten pentapeptides Ace-WLXLL at the cyclohexane/water and phospholipids/water interfaces. *BMC Biochem* **6**:30.
4. Montecinos, R., Ahumada, H., Martinez, R., Olea, F. A., Araya-Maturana, R., **Aliste, M.P.**, Tieleman, D.P. and Weiss-Lopez, B.E. (2004). Structure and aggregation number of a lyotropic liquid crystal: A fluorescence quenching and molecular dynamics study. *Langmuir*, **20**, 5703-5708.
5. **Aliste, M.P.**, MacCallum, J.L. and Tieleman, D.P. (2003). Molecular dynamics simulations of pentapeptides at interfaces: Salt bridge and cation-pi interactions. *Biochemistry* **42**, 8976-8987.
6. **Aliste, M.P.** and Cassels, B.K. (2001). Computational study on the conformations of dopamine, its alpha- and ortho-methylated derivatives, and their N-protonated forms. *J. Chem. Soc., Perkin Trans. 2*, 906-915.
7. **Aliste, M.P.** (2000). Theoretical study of dopamine. Application of the HSAB principle to the study of drug-receptor interactions. *J. Mol. Struct. Theochem*, **507**, 1-10.

Conference Publications:

- American Medical Informatics Association (AMIA) Annual Symposium and World Congress on Medical and Health Informatics (MEDINFO) are considered top-tiered publication venues in clinical informatics. Two full-length papers for these conferences are considered equivalent to one journal publication. These are PubMed-indexed, peer-reviewed, citable, full papers.
1. H. Soni, A. Grando, **M. P. Aliste**, A. Murcko, M. Todd, M. Mukundan, M. Saks, C. Horrow, R. Sharp, C. Dye, D. Chern, M. J. Whitfield, M. Callesen. (2019) Perceptions and preferences about granular data sharing and privacy of behavioral health patients. World Congress on Medical and Health Informatics (MEDINFO), Lyon, France, August 26-30, 2019: 1361-1365
 2. **M.P. Aliste**, M. A. Grando, A. Murcko, H. Soni, M. Todd, M. Mukundan, M. Saks, C. Horrow, R. Sharp, C. Dye, D. Chern, M. J. Whitfield, M. Callesen. (2019) Design and Pilot Testing of an English and Spanish Behavioral Health Patient Survey on Data Privacy. World Congress on Medical and Health Informatics (MEDINFO), Lyon, France, August 26-30, 2019:1891-1892
 3. H. Soni, M. A. Grando, A. Murcko, M. Bayuk, P. Chandrashekar, M. Mukundan, M. Abrams, **M. P. Aliste**, M. Hiestand, J. Varkey, W. Zhou, C. Horrow, M. Saks, R. Sharp, M. Whitfield, M. Callesen, C. Dye, D. Chern (2017) Current State of Electronic Consent Processes in Behavioral Health: Outcomes from an Observational Study. AMIA Annu Symp 2017; 2017:1607-1616
 4. **Aliste, M.P.** and Harvey, S.C. (2006). Phase transitions on nascent discoidal particles of (Δ 40) apo A-I. A MD study. *Biophys. J.* **90**, 161A.
 5. Caufield, T., **Aliste, M.P.** and Harvey, S. C. Understanding the structural basis for the fidelity of translation. *Biophys. J.* **90**, 497A.

6. Catte, A., Patterson, J. C., Bashtovyy, D., Weinstein, G., Su, Z. Li, L., Chen, J., Jones, M.K., **Aliste, M.P.**, Harvey, S. C. and Segrest, J. P. (2005). Novel changes in discoidal high-density lipoprotein morphology: A molecular dynamics study, submitted, *Biophys. J.* **90**, 30A.
7. **Aliste, M.P.** and Harvey, S.C. (2005). Molecular models of apolipoprotein and high-density lipoproteins. *Biophys. J.* **88**, 370A.
8. **Aliste, M.P.**, Choudhary, G., Lipkind, G.M., Fozzard, H.A., Dudley, S.C., French, R.J., and Tieleman, D. P. (2003). Molecular dynamics (MD) simulation of μ -conotoxin interactions with Na⁺ channels. *Biophys. J.* **84**, 213A.
9. **Aliste, M. P.**, MacCallum, J. L. & Tieleman, D. P. (2002) Molecular dynamics of pentapeptides at interfaces. *Bioch. Cell Biol.* **80**: 693.
10. Mukhopadhyay, P., **Aliste, M.P.**, Shepherd, C., Vogel H.J. & Tieleman D.P. (2002). Distribution of pentachlorophenol between water and membrane: a molecular dynamics study. *Bioch. Cell Biol.* **80**: 694
11. **Aliste, M. P.**, MacCallum, J. L. & Tieleman, D. P. (2002). Molecular dynamics simulations of peptides at water/cyclohexane, water/octanol, and water/lipid interfaces. *Biophys. J.* **82**, 2623.
12. **Aliste, M. P.** & Cardenas-Jiron, G. I. (2001) Computational studies on the electrophilic bromination of cytosine. *Abstr. Pap. Am. Chem. Soc.* **222**, 57-ORGN.

Poster Presentations

- **Aliste, M.P.** and Harvey, S.C. (2006) Phase transitions on nascent discoidal particles of (Δ 40) apo A-I. A MD study Frontiers in Macromolecular Simulations, University of Alabama at Birmingham, Birmingham, AL.
- **Aliste, M.P.** and Harvey, S.C. (2005) Molecular dynamics simulations of discoidal particles of apolipoprotein A-I. Frontiers in Macromolecular Simulations, Institute for Bioengineering and Bioscience, Georgia Institute of Technology, Atlanta, Georgia.
- **Aliste, M.P.** and Harvey, S.C. (2004). Molecular models of apolipoprotein and high-density lipoproteins. 12th Annual F.L." Bud" Suddath Bioscience Symposium. Georgia Institute of Technology, Atlanta, Georgia.
- **Aliste, M. P.**, MacCallum, J. L. & Tieleman, D. P. (2002) Molecular dynamics of pentapeptides at interfaces. CSBMCB 45th Annual Meeting and Winternational Symposium, Banff, AB, Canada.
- **Aliste, M.P.** and B.K. Cassels. (2001) Molecular modeling of dopamine receptors and its interactions with agonist. Beyond Proteomics, Department of Pharmacology Retreat. University of Calgary, Kananaskis, AB.
- **Aliste, M. P.** and Cassels, B. K. (1999). Conformational study of dopamine and its *ortho*-methylated derivatives. 23rd Chilean Chemistry Meeting. Valdivia, Chile.
- **Aliste, M.P.** and B.K. Cassels. (1998) *Ab initio* and molecular dynamics study of apomorphine and boldine. 4th International Symposium on Natural Products and their Applications, Talca, Chile.
- **Aliste, M. P.** and B. K. Cassels. (1998). DFT Study of Dopamine. 24th International Congress of Theoretical Chemists of Latin Expression, Puebla, Mexico.

Invited Presentations

- **Aliste, M.P.** (2009) Docking μ -conotoxin GIIIA with the sodium channel outer vestibule: A molecular dynamics simulation study based on experimental mutagenesis data. (2009) Department of Structural and Chemical Biology. Mount Sinai School of Medicine, New York.
- **Aliste, M.P.** and Harvey, S.C. Phase transitions on nascent discoidal particles of (Δ 40) apo A-I. A MD study. 50th Biophysical Society Meeting, Salt Lake City, Utah.
- **Aliste, M.P.** and Harvey, S.C. (2005). Molecular models of apolipoprotein and high-density lipoproteins. 49th Biophysical Society Meeting. Long Beach, California.
- **Aliste, M.P.** (2004) Molecular modeling of sodium ion-channel. A docking study. Faculty of Sciences, University of Chile, Santiago, Chile.
- **Aliste, M.P.** (2003) Study of pentapeptides at interfaces, salt-bridges and cation-pi interactions, School of Biology, Georgia Institute of Technology, Atlanta, Georgia.
- **Aliste, M.P.** (2003) Molecular dynamics simulations of DOPC lipid membranes. Faculty of Sciences, University of Chile, Santiago, Chile.
- **Aliste, M.P.** (2002) Study of pentapeptides at interfaces. Department of Biochemistry, University of Calgary, Kananaskis, Alberta, Canada.
- **Aliste, M.P.** (2002) Study of pentapeptides at interfaces. Department of Biochemistry, University of Calgary, Kananaskis, Alberta, Canada.
- **Aliste, M.P.** (1996) Molecular Modeling of Dopamine receptors. University of Bath, England.

Conference and Other Professional Activities

2023

- Mini-Symposium: Heat & Health, BMI/BMD Affinity Network (April 21, 2023)
- ASU Summit: COVID Diagnostics Post PHE (March 14, 2023)

2022

- Annual Health Summit, HIMSS Arizona Chapter, Avondale (10/14/2022)
- 2022 Digital Trust Summit: Navigate digital worlds with confidence. (October 12, 2022)
- Biomedical Diagnostic Roundtable: Fellowship opportunities, CHE, ASU (9/20/2022)
- REMOTE: The Connected Faculty Summit. (June 8-9, 2022) Hosted by ASU
- 4th Annual Phoenix Symposium on Data Analytics in Healthcare, U of Arizona College of Medicine, Phoenix, Arizona (4/28/2022)

2021

- Recipes for Data Success - 5th Annual ASU Data Conference, ASU Enterprise Technology. Tempe, Arizona, Virtual. (November 15-17, 2021)
- Discover the Magic in Healthcare. HIMSS Arizona Chapter Annual Health Summit, Tempe (September 30th-October 1st, 2021)
- 2021 Digital Trust Summit: Digitally Immersive Event (June 15-17, 2021)
- REMOTE: The Connected Faculty Summit. (June 9-10, 2021) Hosted by ASU
- Phoenix Symposium on Data Analytics in Healthcare. 4th Annual Symposium on Data Analytics in Healthcare, U of Arizona College of Medicine. Virtual (April 22, 2021)

2020

- ASU Data Conference 2020: Slaying the Data Monsters (November 16-20, 2020)

- Phoenix Symposium on Data Analytics in Healthcare. 4th Annual Symposium on Data Analytics in Healthcare, U of Arizona College of Medicine. Virtual (April 2, 2020)

2019

- 2nd Annual ASU Data Conference (November 11-13, 2019)

2016

- ACS Spring 2016: Computers in Chemistry, San Diego, CA (March 13-17, 2016)

Award/Honors/Fellowships

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|---|----------------|
| ▪ International Cooperation Incentive Program, a research grant from FONDECYT (National Fund for Scientific and Technological Development), Chile | 8/2002-12/2003 |
| ▪ Travel awards Canadian Society of Biochemistry, Molecular, and Cellular Biology, Canada | 8/2001 |
| ▪ Thesis grant from the Graduate School, University of Chile. | 3/1997-12/1997 |
| ▪ Graduate research scholarship from British Council (UK) and the National Commission for Scientific and Technological Research (CONICYT, Chile). | 8/1995-8/1996 |
| ▪ Graduate scholarship from the National Commission for Scientific and Technological Research. (CONICYT) (1994-1997) | 3/1994-12/1997 |
| ▪ President of the Republic's Scholarship for undergraduate studies | 3/1991-12/1991 |