



## Adriana Felisa Chávez De la Peña

Born in México, México City, March-7-1993 (26 y.o.)

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### Resume

Undergrad Psychology studies at the National Autonomous University of México (UNAM), with an emphasis on Experimental Psychology. I'm interested in the application of mathematical cognitive models to the study of Decision Making, Perception, Memory and Cognitive Development, with a great passion for Psychometrics and Psychophysics. I have been working at the Laboratory run by Dr. Arturo Bouzas in the Psychology School at the UNAM, since January, 2015. My undergrad thesis revolved around Signal Detection Theory and how it has been applied to Recognition Memory, this project has been presented at a couple of international and national congresses and meetings, and it is currently being extended by means of the application of different Bayesian cognitive models, to be published as a paper in the short-term future.

### COMPUTATIONAL SKILLS

*Writing:* LATEX, Office (Word, Excel Power Point, etc.)

*OS :* Mac, Windows

*Data analysis and plotting:* R (IDE: RStudio), Python (IDE: Spyder), SPSS y JASP

*Experimental programming:* Python (PsychoPy)

*Website building:* HTML, CSS

I run the following sites:

<http://www.bouzaslab25.com> (Our lab's website)

<http://www.bouzaslab25.com/LabVirtual25/> (An interactive website for students to interact with some mathematical models built within Psychology)

### GENERAL SKILLS

- Psychometrics: Test development and data analysis
- Speaking in public: I've got experience being a teacher and making public presentations.
- Communication skills: I consider myself a very candid person.
- Persistence.

**Languages** Spanish (Native) English (Fluent: TOEFL IBT 114; Speaking subscore: 28/30)

### EDUCATION

- ✓ Bachelor degree in Psychology at the National Autonomous University of Mexico (School of Psychology)  
G.P.A: 9.79/10.0.
- ✓ Exchange Abroad Student at the University of California, Santa Barbara (Fall Quarter, 2014)

### Courses Taken

- (2018) "Sampling" by Dr. Emilio López Escobar, organized by the General Department of Measurement and Data Analysis at the National Institute for Educational Evaluation.
- (2018) "Introduction to Cognitive Diagnostics" by Dr. Juan Carlos Pérez Morán, organized by the General Department for the Evaluation of Teachers and Principals at the National Institute for Educational Evaluation.
- (2019) "Evaluation tools", given by Olga María Rey Morán, organized by the General Department of Incorporation and studies revalidation.

### ACADEMIC EXPERIENCE

2014 - 2016 Student Council (Elected by the students of the School of Psychology to be their representative from May, 2014 to May, 2016)

2015- 2019 Lab member at Lab25, directed by Dr. Arturo Bouzas ([abouzasr@gmail.com](mailto:abouzasr@gmail.com)). I've participated in the following research projects:

- PAPIIT IN307214: Learning under dynamic environments
- PAPIIME PE310016: Development of virtual tools for teaching cognitive and behavioral sciences (Head student).

- PAPIIT IG120818: Application of probabilistic models to the study of cognitive processes and algorithm design for service robots.

## WORKING EXPERIENCE

*May 2018* – January 2019. Chief of Project (A-Class), at the National Institute for Educational Evaluation, at the General Department for the Evaluation of Teachers and Principals. Reference: Sandra Conzuelo Serrato [sconzuelo@inee.edu.mx](mailto:sconzuelo@inee.edu.mx)

*November 2019* – December 2019. External Consultant for test development, at the Public Education Secretary, at the Department of the Career System for Teachers. Reference: Ramsés Vázquez-Lira [drvazque@gmail.com](mailto:drvazque@gmail.com)

## TEACHING EXPERIENCE

*2015–2017* English teacher at Instituto Mexicano Norteamericano de Cultura, for High schoolers.

*2015–Present* T.A. for Dr. Arturo Bouzas, in the following undergrad courses:

- Learning and Adaptative Behaviour I (2015-2018)
- Learning, Motivation and Cognition III (2015 y 2016)
- Research Workshop I, II y III (2015-2019)
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*June 2017* Summer courses given at the School of Psychology, UNAM:

- Statistical Thinking: an introduction
- Introduction to Bayesian modeling techniques
- A Python laboratory for behavioral sciences

*January 2019* – Present. Teacher of Methodology at the private High School “Centro Educativo Jean Piaget”

## Posters

- **Chávez-De la Peña, A.F.** (November, 2015) “Sensibility as a source of Bias in a signal detection task using optical illusions” at the V International Symposium of Behavioral Analysis (México City, México).
- **Chávez-De la Peña, A.F.** (November, 2016) “The Mirror effect within perception: Not another recognition memory study” at the Object, Perception, Attention and Memory 24th Annual Meeting (Boston, Massachusetts).
- Zamora-Arévalo, O., Pérez-Calzada, M., **Chávez-De la Peña, A.F.**, & Morales-Medina, R. (November, 2018) “The Role of Pre-Feeding on Temporal Discrimination: An Analysis With Signal Detection” at the Psychonomic Society 2018 Meeting (New Orleans, Louisiana).
- **Chávez-De la Peña, A.F.**, Lee, M. D. & Bouzas, A. (July, 2019) “Bayesian Cognitive and Statistical Modeling Applied to Signal Detection Theory and the Mirror Effect in a Perceptual Task” at the 52nd Annual Meeting of the Society for Mathematical Psychology (Montreal, Canada).
- Pérez-Calzada, M., **Chávez-De la Peña, A.F.**, García-Martínez, M., Vanegas-Chavarría, M. & Zamora-Arévalo, O. (September, 2019) “Assessing Retrospective Memory: Temporal Sequences and Delays” at the III Neurobiology Meeting of the Mexican Society for Biochemistry, (Guanajuato, Guanajuato).
- Zamora-Arévalo, O., Vanegas-Chavarría, M., Pérez-Calzada, M., **Chávez-De la Peña** & García-Martínez, M. (October, 2019) Discrimination of Temporal Sequences and Retention Intervals at Timing Research Forum (Querétaro, Querétaro).
- Pérez-Calzada, M., **Chávez-De la Peña, A.F.**, García-Martínez, M., Vanegas-Chavarría, M. & Zamora-Arévalo, O. (November, 2019) Evaluando memoria retrospectiva: secuencias temporales con intervalos de retención (Assessing retrospective memory: temporal sequences with retention intervals) at the VII International Symposium of Behavioral Analysis (Guadalajara, Jalisco).
- Ruíz, N.K., Niño, J.M., **Chávez, A.F.** (November 2019) Studies about Framing Effect. Compatibility in Language. At the 40th Annual Conference of the Society for Judgement and Decision Making, Montreal, Canada -
- Niño, J.M., Villalobos, E., Villarreal, J, **Chávez, A.F.**, Lira, F. (November 2019) Transitivity in gains and losses. At the 40th Annual Conference of the Society for Judgement and Decision Making, Montreal, Canada -

## **SYMPOSIA**

- **Chávez, A.F.**, Villarreal, J.M., Velázquez, C.A. & Niño, J.M. “Models of Adaptation in dynamic environments: Studies on detection, preferences and probability” at the VI International Symposium of Behavioral Analysis (November, 2017; *Tlaxcala, Tlaxcala*)
- Conzuelo, S., **Chávez A.F.** & Zárata, L.R. “Cognitive diagnosis as a reflection tool for the teaching practice in elementary school in México” at the National Congress of Educational Research (November, 2019; *Guerrero, Acapulco*).
- Conzuelo, S. & **Chávez, A.F.** “Teacher’s formation and reflection: A study case on Elementary Education in México” at the VIII Annual Meeting of the International Network of Research on Education (November, 2019; *Buenos Aires, Argentina*).

**All probative documents are available upon request**

This CV was updated on November 18th, 2019