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Education

September 1993 - June 1997: BS in Psychology from the University of Deusto (Bilbao, Spain).

October 1994 - June 1997: Voluntary research in Professor Helena Matute's laboratory, University of Deusto (Bilbao, Spain).

July 1997 - July 2002: Predoctoral fellowship in Professor Helena Matute's laboratory, University of Deusto (Bilbao, Spain).

November 1999 - December 1999 and July 2000 - September 2000: Predoctoral fellowships in Professor Mark E. Bouton's laboratory, University of Vermont (Burlington, VT).

July 2001 - August 2001: Predoctoral fellowship in Professor Luis Gonzalo de la Casa's laboratory, University of Seville (Seville, Spain).

July 2002: Ph.D. in Psychology from the University of Deusto (Bilbao, Spain).

July 2002 - July 2004: Postdoctoral Fellowship in Professor Ralph R. Miller's laboratory, as well as Visiting Assistant Professor, SUNY-Binghamton (Binghamton, NY).

December 2004 - August 2007: Researcher in the Department of Experimental Psychology at the University of Seville (Seville, Spain).

September 2007 - Now: Assistant Professor in Psychology at Hofstra University (Hempstead, NY).

Teaching experience

Courses

October 1996 - June 1997: Practicum of *Research and teaching*, in which I collaborated with Professor Helena Matute in the courses *Associative learning* and *Learning and behavior* with undergraduate students, at the University of Deusto (Bilbao, Spain).

February 2000 - June 2002: Teaching assistantship at the University of Deusto (Bilbao, Spain). This teaching activity was related to the courses *Associative learning* and *Learning and behavior*, taught by Professor Helena Matute.

January 2003 - May 2003: Lecturer of *Experimental psychology (Learning)* at SUNY-Binghamton (Binghamton, NY).

April 2004: Accredited as Ph.D. assistant professor by the Spanish National Agency for Quality Assessment and Accreditation (ANECA).

November 2005 - December 2005: Lecturer of sections *Learning and conditioning* and *Memory and knowledge representation* in the course *Basic psychological processes* at the University of Seville (Seville, Spain).

September 2007 - Now: Assistant Professor at Hofstra University (Hempstead, NY), where I have taught the following courses: *Fundamental perspectives in psychology* (Psy 7), *Behavior modification* (Psy 11), *Animal cognition* (Psy 14 [Seminar]), and *Principles of learning and behavior* (Psy 110).

Seminars

March 1996: Teaching of the seminar "*Desarrollo de un experimento en psicología*" ("*Performing an experiment in psychology*"), in the 10th F.I.C.E. Week, University of Deusto (Bilbao, Spain).

March 1998: Direction and teaching of the seminar "*¿Son los animales tan inteligentes como el ser humano?*" ("*Are animals as intelligent as the human being?*"), in the 12th F.I.C.E. Week, University of Deusto (Bilbao, Spain).

March 1999: Direction and teaching of the seminar "*Máquinas que piensan. Un acercamiento a la inteligencia artificial*" ("*Machines that think. An approach to artificial intelligence*"), in the 13th F.I.C.E. Week, University of Deusto (Bilbao, Spain).

October 1995 - June 1996: Director of a discussion group about scientific papers, with students Psychology at the University of Deusto (Bilbao, Spain).

Committees

Zych-Poplardo, A. *How language direction influences perceptual span: A comparison between English and Hebrew*. Undergraduate honors thesis. Hofstra University, May 16, 2008.

Travers, M. E. *Secondary reinforcement effects of combining food with praise in dogs*. Doctoral dissertation. Hofstra University, February 18, 2009.

Mehl, S. M. *The effects of rules and worry on schedule sensitivity following a shift in reinforcement contingencies*. Hofstra University, July 25, 2011.

Grants awarded

July 1997 - February 1999: Collaborator in the project "Selección de claves y bidireccionalidad en los juicios de causalidad" ("Cue selection and bidirectionality in causality judgments") (ref. PI96/006), supported by the Department of Education, Universities, and Research of the Basque Government. This collaboration took place in the Psychology of Learning laboratory of the University of Deusto (Bilbao, Spain), under the supervision of Professor Helena Matute.

March 1999 - September 2002: Grant of the National Program of Research Staff Education, Education of Graduate Subprogram in Spain (ref. AP98 44970323), founded by the Spanish Ministry of Education and Culture.

November 1999 - December 1999, July 2000 - September 2000, and June 2001 - August 2001: Support for short stays provided by the grant of the National Program of Research Staff Education, Education of Graduate Subprogram in Spain, (ref. AP98 44970323), founded by Spanish Ministry of Education and Culture.

August 2002 - September 2004: Collaborator of the project NIHM 3381 granted by SUNY-Research Foundation to professor Ralph R. Miller.

October 2002 - September 2004: Postdoctoral grant of the Spanish Ministry of Education and Culture (ref. EX2002-0739).

December 2004 - August 2007: Support (12,000€) to facilitate the initial development of research, granted by Regional Ministry of General Secretary of Universities, Research, and Technology of the Andalusia Government (Spain).

September 2007: One-time start-up research fund (\$18,000), provided by Hofstra University (Hempstead, NY).

May 2008 - Now: Faculty Research and Development Grants, provided by Hofstra University (Hempstead, NY) for the following amounts: \$960 (2008), \$500 (2009), \$639 (2010), and \$350 (2011).

Editorial boards

November 2010 - Now: Review Editor of *Frontiers in Comparative Psychology*.

Journals reviewed for (ad hoc reviewer)

Behavioural Processes
Journal of Experimental Psychology: Animal Behavior Processes
Learning & Behavior
Learning and Motivation
Psicológica
Psychonomic Bulletin & Review
The Quarterly Journal of Experimental Psychology. Section B: Comparative and Physiological Psychology
The Spanish Journal of Psychology

PublicationsPublications in scientific journals

Matute, H. & Pineño, O. (1998). Stimulus competition in the absence of compound conditioning. *Animal Learning and Behavior*, 26, 3-14.

Pineño, O., Ortega, N., & Matute, H. (2000). The relative activation of the associations modulates interference between elementally-trained cues. *Learning and Motivation*, 31, 128-152.

Pineño, O., & Matute, H. (2000). Interference in human predictive learning when associations share a common element. *International Journal for Comparative Psychology*, 13, 16-33.

Escobar, M., Pineño, O., & Matute, H. (2002). A comparison between elemental and compound training of cues in retrospective revaluation. *Animal Learning & Behavior*, 30, 228-238.

Pineño, O. (2004). Differential effects of nonreinforcement and punishment in humans. *Psicológica*, 25, 87-102.

Bouton, M. E., Woods, A. M., & Pineño, O. (2004). Occasional reinforced trials during extinction can slow the rate of rapid reacquisition. *Learning and Motivation*, 35, 371-390.

Pineño, O., & Miller, R. R. (2004). Signaling a change in cue-outcome relations in human associative learning. *Learning & Behavior*, 32, 360-375.

Beckers, T., De Houwer, J., Pineño, O., & Miller, R. R. (2005). Outcome additivity and outcome maximality influence cue competition in human causal learning. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 31, 238-249.

Pineño, O., & Miller, R. R. (2005). Primacy and recency effects in extinction and latent inhibition: A selective review with implications for models of learning. *Behavioural Processes*, 69, 223-235.

- Pineño, O., Urushihara, K., & Miller, R. R. (2005). Spontaneous recovery from forward and backward blocking. *Journal of Experimental Psychology: Animal Behavior Processes*, *31*, 172-183.
- Urushihara, K., Wheeler, D. S., Pineño, O., & Miller, R. R. (2005). An extended comparator hypothesis account of superconditioning. *Journal of Experimental Psychology: Animal Behavior Processes*, *31*, 184-198.
- Pineño, O., Denniston, J. C., Beckers, T., Matute, H., & Miller, R. R. (2005). Contrasting predictive and causal values of predictors and of causes. *Learning & Behavior*, *33*, 184-196.
- Pineño, O., & Matute, H. (2005). Outcome similarity modulates retroactive interference between cues trained apart. *Psicológica*, *26*, 281-292.
- Bills, C. H., Dopheide, M., Pineño, O., & Schachtman, T. R. (2006). Effects of an extinguished CS on competition with another CS. *Behavioural Processes*, *72*, 14-22.
- Pineño, O., De la Casa, L. G., Lubow, R. E., & Miller, R. R. (2006). Some determinants of latent inhibition in humans. *Learning and Motivation*, *37*, 42-65.
- Pineño, O., Urushihara, K., Stout, S., Fuss, J., & Miller, R. R. (2006). When more is less: Extending training of the blocking association following compound training attenuates the blocking effect. *Learning & Behavior*, *34*, 21-36.
- Pineño, O., & Miller, R. R. (2007). Comparing associative, statistical, and inferential reasoning accounts of human contingency learning. *The Quarterly Journal of Experimental Psychology*, *60*, 310-329.
- Pineño, O. (2007). An examination of the effectiveness of inflation and deflation treatments in detecting within-compound learning of a taste aversion. *Behavioural Processes*, *75*, 33-39.
- Pineño, O., Zilski, J. M., & Schachtman, T. R. (2007). Second-order conditioning during a compound extinction treatment. *Learning and Motivation*, *38*, 172-192.
- Pineño, O. (2007). Protection from extinction by concurrent presentation of an excitator or an extensively extinguished CS. *Psicológica*, *28*, 151-166.
- Pineño, O. (2007). A response rule for positive and negative stimulus interaction in associative learning and performance. *Psychonomic Bulletin & Review*, *14*, 1115-1124.
- Pineño, O., Zilski-Pineno, J. M., & Miller, R. R. (2008). Habituation of unconditioned fear can be attenuated by the presence of a safe stimulus: Assessment using the neophobic response of the rat. *Behavioural Processes*, *77*, 55-60.
- Amundson, J. C., Witnauer, J. E., Pineño, O., & Miller, R. R. (2008). An inhibitory within-compound association attenuates overshadowing. *Journal of Experimental Psychology: Animal Behavior Processes*, *34*, 133-143.
- Pineño, O. (2010). Failure of serial taste-taste compound presentations to produce overshadowing of extinction of conditioned taste aversion. *Learning and Motivation*, *41*, 95-107.
- Pineño, O. (2010). Enhanced consumption of an aversively conditioned taste following the presentation of a "medicine" taste. *Behavioural Processes*, *84*, 625-628.

Dissemination and opinion articles

- Pineño, O., & Barrios, I. (2003). Psicología y marketing (1): Del control del laboratorio al caos de la realidad. (*Psychology and marketing (1): From the laboratory control to the chaos of reality.*) Psicoteca.
- Barrios, I., & Pineño, O. (2003). Psicología y marketing (2): La influencia del consumidor. (*Psychology and marketing (2): Consumer's control.*) Psicoteca.
- Pineño, O. (2004). La psicología y sus demonios. (*Psychology and its demons.*) Psicoteca.
- Zilski-Pineño, J. M., & Pineño, O. (2007). Should we talk to the general public about our work? *International Journal of Comparative Psychology*, *20*, 10-12.
- Pineño, O. (2008). Animal models of human misbehavior. *Hofstra Horizons*, *Fall 2008*, 16-21.

Books

- Pineño, O., Vadillo, M. A., & Matute, H. (2007). *Psicología del aprendizaje (Psychology of learning)*. Badajoz, Spain: Abecedario. ISBN: 84-96560-40-6.
- Pineño, O. (2010). *The thinking rat: The new science of animal learning*. Charleston, SC: CreateSpace.

Book chapters

- Matute, H. & Pineño, O. (1998). Cue competition in the absence of compound training: Its relation to paradigms of interference between outcomes. In D. L. Medin (Ed), *The Psychology of Learning and Motivation*, *38* (pp. 45-81). San Diego, CA: Academic Press.
- Pineño, O., Vegas, S., & Matute, H. (2003). Factores que median en la expresión del aprendizaje asociativo humano (*Factors that mediate in the expression of human associative learning*). In J. Vila, J. Nieto, y J. M. Rosas (Eds.), *Investigación contemporánea en aprendizaje asociativo (Contemporary research in associative learning)* (pp. 175-190). Jaén: Del Lunar.

- Pineño, O., Castro, L., & Urcelay, G. P. (2007). Interacción entre estímulos (*Stimulus interaction*). In O. Pineño, M. A. Vadillo, & H. Matute (Eds.), *Psicología del aprendizaje (Psychology of learning)* (pp. 25-48). Badajoz, Spain: Abededario.
- Schachtman, T. R., Ramsey, A., & Pineño, O. (2009). Postconditioning event manipulations on processing of the target conditioned stimulus in conditioned taste aversion. In S. Reilly & T. R. Schachtman (Eds.), *Conditioned taste aversion: Behavioral and neural mechanisms* (pp. 134-158). New York: Oxford University Press.
- De la Casa, L. G., & Pineño, O. (2010). Inter-stage context and time as determinants of latent inhibition. In R. E. Lubow & I. Weiner (Eds.), *Latent inhibition: Cognition, neuroscience and applications to schizophrenia* (pp. 40-61). Cambridge, UK: Cambridge University Press.
- Presentations at meetings**
- Oral communications**
- Matute, H. & Pineño, O. *Competición de estímulos entre ECs entrenados individualmente (Stimulus competition between individually trained CSs)*. 8th Congress of the Spanish Society of Comparative Psychology, Málaga (Spain), September 1996.
- Matute, H. & Pineño, O. *Stimulus competition in the absence of compound conditioning*. Associative Learning Conference, Wales-Cardiff (U.K.), March 1997.
- Matute, H. & Pineño, O. *Cue interaction in the absence of compound trials*. Meeting of the Experimental Psychology Society, Oxford (U.K.), March 1997.
- Pineño, O. & Matute, H. *El papel de los contextos temporales en la competición entre estímulos entrenados individualmente (The role of temporal contexts in competition between elementally-trained stimuli)*. 9th Congress of the Spanish Society of Comparative Psychology. Salamanca (Spain), September 1997.
- Matute, H. & Pineño, O. *Cue competition in the absence of compound training: Its relation to other interference paradigms in Pavlovian conditioning*. Invited paper at the Meeting of the Eastern Psychological Association (E.P.A.), Boston, MA, February 1998.
- Pineño, O., Ortega, N., & Matute, H. *El efecto de competición entre estímulos entrenados elementalmente y su paralelismo con el bloqueo hacia atrás y la extinción (The effect of competition between elementally-trained stimuli and its parallelism to backward blocking and extinction)*. 10th Congress of the Spanish Society of Comparative Psychology. Almería (Spain), September 1998.
- Vegas, S., Pineño, O., & Matute, H. *Una interpretación asociativa de la discrepancia entre los juicios de causalidad ensayo a ensayo y los globales (An associative interpretation of the discrepancy between trial-by-trial and global causality judgments)*. 10th Congress of the Spanish Society of Comparative Psychology. Almería (Spain), September 1998.
- Matute, H., Pineño, O., Ortega, N., & Miller, R. R. *Efectos de interferencia desde el punto de vista de las teorías del aprendizaje (Interference effects from the learning theories point of view)*. 1st Congress of the Spanish Society of Experimental Psychology. Granada (Spain), December 1998.
- Vegas, S., Pineño, O., & Matute, H. *Cambios contextuales y efecto de modo de respuesta en juicios de contingencia (Contextual changes and response mode in contingency judgments)*. 11th Congress of the Spanish Society of Comparative Psychology. Jaén (Spain), September 1999.
- Pineño, O., & Bouton, M. E. *Readquisición cuando la extinción o el reforzamiento parcial ha seguido a una fase inicial de condicionamiento (Reacquisition when either extinction or partial reinforcement has followed an initial conditioning phase)*. 13th Congress of the Spanish Society of Comparative Psychology. San Sebastian (Spain), September 2001.
- Schachtman, T. R., Bills, C. H., & Pineño, O. *Effects of extinguishing a CS on competition with another CS*. 43rd Annual Meeting of the Psychonomic Society. Kansas, MO, November 2002.
- Pineño, O., & Matute, H. *PD-SOP: A path-dependent model of associative learning*. Meeting of the Eastern Psychological Association (E.P.A.), Baltimore, MD, March 2003.
- Pineño, O., & Miller, R. R. *Recuperación espontánea de la respuesta después del bloqueo hacia delante y hacia atrás: El papel de las asociaciones intracompuesto (Spontaneous recovery of responding following forward and backward blocking: The role of within-compound associations)*. 15th Congress of the Spanish Society of Comparative Psychology. Barcelona (Spain), September 2003.
- Pineño, O., & Miller, R. R. *Señalando un cambio en las relaciones clave-consecuencia en aprendizaje asociativo humano (Signaling a change in cue-outcome relations in human associative learning)*. 15th Congress of the Spanish Society of Comparative Psychology. Barcelona (Spain), September 2003.

- Pineño, O., Denniston, J. C., & Miller, R. R. *El aprendizaje predictivo y causal en humanos son diferencialmente sensibles a la competición entre estímulos (Predictive and causal learning in humans are differentially sensitive to stimulus competition)*. 15th Congress of the Spanish Society of Comparative Psychology. Barcelona (Spain), September 2003.
- Miller, R. R., & Pineño, O. *Predictors and causes: What's the difference?* Invited symposium presentation at the 44th Annual Meeting of the Psychonomic Society. Vancouver (Canada), November 2003.
- Pineño, O., & Miller, R. R. *Spontaneous recovery of responding following forward and backward blocking: The role of within-compound associations*. 11th Annual International Conference on Comparative Cognition, Melbourne Beach, FL, March 2004.
- Pineño, O., Fuss, J., & Miller, R. R. *Attenuation of forward and backward blocking achieved by extending posttraining of the blocking association*. Meeting of the Eastern Psychological Association (E.P.A.), Washington D. C., April 2004.
- Woods, A. M., Pineño, O., & Bouton, M. E. *Reacquisition following extinction and following partial reinforcement in appetitive conditioning*. Meeting of the Eastern Psychological Association (E.P.A.), Washington D. C., April 2004.
- Pineño, O., De la Casa, L. G., Lubow, R. E., & Miller, R. R. *Some determinants of latent inhibition in humans*. Invited paper at the Meeting on Human Contingency Learning, Ardennes (Belgium), May 2004.
- Miller, R. R., & Pineño, O. *Applying the comparator hypothesis to predictive and causal learning by humans, and a statistical reformulation of the comparator hypothesis*. Invited paper at the Meeting on Human Contingency Learning, Ardennes (Belgium), May 2004.
- Pineño, O., De la Casa, L. G., Lubow, R. E., & Miller, R. R. *Algunos determinantes de la inhibición latente en humanos. (Some determinants of latent inhibition in humans.)* 12th Biennial Meeting of the International Society for Comparative Psychology / 16th Congress of the Spanish Society of Comparative Psychology. Joint International Meeting. Oviedo (Spain), September 2004.
- Pineño, O., Stout, S., Fuss, J., & Miller, R. R. *Atenuación del bloqueo hacia delante y hacia atrás obtenida extendiendo el post-entrenamiento de la asociación bloqueadora. (Attenuation of forward and backward blocking achieved by extending posttraining of the blocking association.)* 12th Biennial Meeting of the International Society for Comparative Psychology / 16th Congress of the Spanish Society of Comparative Psychology. Joint International Meeting. Oviedo (Spain), September 2004.
- Urushihara, K., Pineño, O., Vadillo, M., & Miller, R. R. *Nonconservation of reinforcer value across competing stimuli*. Meeting of the Pavlovian Society, Baltimore, MD, September 2004.
- Pineño, O., Amundson, J. C., y Miller, R. R. *Una asociación intra-compuesto inhibitoria atenúa el ensombrecimiento. (An inhibitory within-compound association attenuates overshadowing.)* 17th Congress of the Spanish Society of Comparative Psychology. Madrid (Spain), September 2005.
- Pineño, O. *Mediación positiva y negativa tras un tratamiento de extinción en compuesto: Efectos del número de ensayos de extinción elemental y en compuesto. (Positive and negative mediation after compound extinction treatment: Effects of the number of elemental and compound extinction trials.)* 18th Congress of the Spanish Society of Comparative Psychology. Málaga (Spain), September 2006.
- Pineño, O., Zilski, J. M., & Schachtman, T. R. *Condicionamiento de segundo orden en un tratamiento de extinción en compuesto. (Second-order conditioning in a compound extinction treatment.)* 18th Congress of the Spanish Society of Comparative Psychology. Málaga (Spain), September 2006.
- Pineño, O. *Enhanced consumption of an aversively conditioned taste following the presentation of a "medicine" taste*. Meeting of the Eastern Psychological Association (E.P.A.), New York, NY, March 2010.
- Pineño, O. *Can rule learning play a role in the renewal effect?* Invited symposium presentation at the Meeting of the Eastern Psychological Association (E.P.A.), New York, NY, March 2010.

Posters

- Ortega, N., Pineño, O., & Matute, H. *Influencia de un intervalo de retención en la competición entre claves entrenadas elementalmente (Influence of a retention interval on competition between individually-trained cues)*. 10th Congress of the Spanish Society of Comparative Psychology. Almería (Spain), September 1998.
- Matute, H., Vegas, S., y Pineño, O. *Utilización de un videojuego para estudiar cómo interfiere lo nuevo que aprendemos sobre lo que ya sabíamos (Use of a computer video-game to study how new learning interferes with what we already knew)*. First online congress of the Observatorio para la Cibersociedad (Observatory of the Cybersociety), 2002.
- Pineño, O., & De la Casa, L. G. *Efectos diferenciales de la presentación de una clave de recuperación del condicionamiento en la inhibición latente en función del contexto experimental (Differential effects of the presentation of a retrieval cue for conditioning on latent inhibition, as a function of experimental context)*. 14th Congress of the Spanish Society of Comparative Psychology. Seville (Spain), September 2002.
- Pineño, O. *Efectos diferenciales de la ausencia de reforzamiento y el castigo en humanos (Differential effects of nonreinforcement and punishment in humans)*. 15th Congress of the Spanish Society of Comparative Psychology. Barcelona (Spain), September 2003.
- Amundson, J. C., Pineño, O., & Miller, R. R. *An inhibitory within-compound association attenuates overshadowing*. Meeting of the Eastern Psychological Association (E.P.A.), Boston, MA, March 2005.

Organization activities at meetings

- Member of the Organizing Committee of the 7th Congress of the Spanish Society of Comparative Psychology, performed at the University of Deusto (Bilbao, Spain), September 1995.
- Co-chairing of oral session *Animal learning and conditioning* with Gumersinda Alonso, at the 12th Biennial Meeting of the International Society for Comparative Psychology / 16th Congress of the Spanish Society of Comparative Psychology. Joint International Meeting. Oviedo (Spain), September 2004.
- Organizer of talks offered by professor Ralph R. Miller (SUNY-Binghamton) in the Department of Experimental Psychology at the University of Seville (Spain), in May 2006, with support (1,193€) granted by the Vice-Rectorate for University Extension of the University of Seville.
- Organizer of talk offered by professor Todd R. Schachtman (University of Missouri) in the Department of Experimental Psychology at the University of Seville (Spain), in June 2006, with support (1,000€) granted by the Ph.D. Program of the Department of Experimental Psychology at the University of Seville.

Other skills

- Computer programming in Borland C++ and Borland Visual C++ Builder. I have programmed several experimental preparations, which I use in my own research on human learning, as well as several versions of a program to simulate models of associative learning. All these programs are available for download at my website (www.opineno.com).
- Computer programming in Objective-C for Cocoa (Mac OS X) and Cocoa Touch (iOS, i.e., iPhone, iPod Touch, and iPad). Thus far, I have developed an app for the iPhone and iPod Touch aiming to help students of Psychology better understand simple schedules of reinforcement. This app is available for free in the Apple App Store (iTunes). Future projects involve developing apps for the iPad and Mac OS X.