

**NAME:** Pablo Ripollés  
**DATE AND PLACE OF BIRTH:** 09/08/1986, Castellón, Spain

**EDUCATION:**

July, 2016. **Ph.D. in Biomedicine**, emphasis in Neuroscience. University of Barcelona, Spain.  
January, 2011. **M.S. in Biomedical Engineering**. University of Navarra, Spain.  
June, 2009. **B.Sc. in Computer Engineering** and **B.Sc. in Technical Engineering in Telecommunications**. University of València, Spain.

**ACADEMIC EMPLOYMENT HISTORY:**

From: June 2022 **Chief Science Officer & Founder**, ViBILLER (an NYU tech start-up).  
From: January 2020 **Assistant Professor**, Department of Psychology and Department of Music and Performing Arts Professions, New York University.  
From: September 2020 **Associate Director**, Music and Audio Research Lab (MARL), New York University.  
From: March 2019 **Research fellow**. Center for Language, Music, and Emotion (CLaME). New York University.  
From: March 2019 **Post-doctoral researcher**. Department of Psychology. New York University.  
To: December 2019  
From: Sept. 2012 **Visiting predoctoral researcher**. *Biological Psychology* group, Dr. Toemme Noesselt. Institute of Psychology, Otto-von-Guericke University, Magdeburg, Germany.  
To: April 2013  
From: January 2012 **Pre-doctoral researcher**. *Cognition and Brain Plasticity Unit*, Dr. Antoni Rodríguez-Fornells and Dr. Josep Marco-Pallares. Department of Basic Psychology, University of Barcelona.  
To: July 2016  
From: January 2011 **Research assistant**. *Cognition and Brain Plasticity Unit*, Dr. Ruth de Diego-Balaguer. Department of Basic Psychology, University of Barcelona.  
To: December 2011

**AWARDS AND HONORS:**

July, 2016. **Ph.D. Cum Laude**. Top qualification for a Ph.D. thesis in the Spanish educational system.  
December, 2011 **Formación Profesorado Universitario (FPU) PhD Fellowship**, Ministerio Educación y Ciencia, Spain.  
July, 2009 **“La Caixa” Foundation Postgraduate Scholarship**, Obra Social “La Caixa”, Barcelona, Spain  
June 2009. **Best grade student award**, B.Sc. in Computer Engineering. Award granted to the student with the highest qualifications among all graduates. University of València, València, Spain.  
June, 2009. **Best grade student award**, B.Sc. in Technical Engineering in Telecommunications. Award granted to the student with the highest qualifications among all graduates. University of València, València, Spain.

## FUNDING

**Total:** \$1,374,349

**Total extramural funding:** \$800,472 including grants from federal agencies (NSF), industry partners (Spiritune, Logitech), and private foundations (TMCity, ASCAP).

**Total intramural funding:** \$151,500.

**Total amount for trainee grants:** \$422,377 including grants from federal agencies (NIH), the European Union (Marie-Curie), and the Spanish Government.

### EXTRAMURAL

1. *Funding Agency:* NSF PAC (2021-2024). *Title:* Audiomotor Speech Rhythms and Their Perceptual Consequences. *Institution:* New York University. *Amount:* \$495,472. Role: Co-PI (PI: David Poeppel, Psychology, FAS, NYU).
2. *Funding Agency:* TMCity Foundation (2021-2023). *Title:* Unveiling the cognitive and neurological consequences of COVID-19: A pretest-posttest study. *Institution:* New York University. *Amount:* \$90,000. Role: PI (co-PI: Prof. Maurizio Porfiri, CUSP, Tandon, NYU).
3. *Funding Agency:* Spiritune (2021-2023). *Title:* Mood regulation via tailored music: a large-scale behavioral study. *Institution:* New York University. *Amount:* \$60,000. Role: PI
4. *Funding Agency:* NSF I-Corps (2021-2022). *Title:* Video Based Interface for the Live Labeling of Emotional Responses. *Institution:* New York University. *Amount:* \$50,000. Role: PI
5. *Funding Agency:* Logitech (2021-2024). *Title:* Behavioral and neural correlates of immersiveness in interactive media (gift). *Institution:* New York University. *Amount:* \$100,000. Role: co-PI (PI: Agnieszka Roginska, Music Tech, Steinhardt, NYU)
6. *Funding Agency:* ASCAP-Media Lab Challenge Grant (2020-2021). *Title:* A computer human interface for the live labeling of emotional responses. *Institution:* New York University. *Amount:* \$5,000. Role: PI

### INTRAMURAL

1. *Funding Program:* Tech Venture Accelerator (2023-2024). *Title:* Video-Based Interfaces for the Live Labeling of Emotional Responses. *Institution:* New York University. *Amount:* \$50,000. Role: PI
2. *Funding Program:* Mega-Grant Seed Initiative (2021-2022). *Title:* Neural mechanisms enabling the enhancement of cognitive skills through musical training. *Institution:* New York University. *Amount:* \$24,000. Role: PI
3. *Funding Program:* David Iakobachvili Emerging Research Award (2021-2022). *Title:* The Cognitive Neuroscience of Music. *Institution:* New York University. *Amount:* \$20,000. Role: PI
4. *Funding Program:* University Research Challenge Fund (2021-2022). *Title:* The CHILLER: a Computer Human Interface for the Live Labeling of Emotional Responses. *Institution:* New York University. *Amount:* \$12,000. Role: PI
5. *Funding Program:* MARL Seed Award (2022-2023). *Title:* 'Watching' movies through speech and music: comprehension and enjoyability of movie scenes across individuals who are blind, have low vision or have no vision loss. *Institution:* New York University. *Amount:* \$10,000. Role: co-PI (PI: Mary Farbood, Music Tech, Steinhardt, NYU).
6. *Funding Program:* NYU Entrepreneurial Institute (2020-2021). *Title:* A Computer Human Interface for the Live Labeling of Emotional Responses. *Institution:* New York University. *Amount:* \$2,500. Role: PI.
7. *Funding Program:* Steinhardt Diversity Innovation Grant (2022-2023). *Title:* 'Watching' movies through music. *Institution:* New York University. *Amount:* \$1,000. Role: PI (co-PI: Arianna Zuanazzi, Psychology, FAS, NYU).
8. *Funding Program:* IHSDC (2022-2023). *Title:* Using Beatboxing to Access the Benefits of Music Making in a Group of Adolescents. *Institution:* New York University. *Amount:* \$20,000. Role: PI.
9. MARL Seed Award (2023-2024). *Title:* Unveiling the neural correlates of music improvisation in stroke patients. *Institution:* New York University. *Amount:* \$12,000. Role: PI.

## TRAINEE GRANTS

1. *Funding Agency:* European Commission Marie Curie Postdoctoral Global Fellowship (2023-2026). *Title:* Social Media Artistic tRaining in Teenagers. *Institution:* New York University-Universidad Complutense de Madrid. *Amount:* \$333,000. *Trainee:* Dr. Lucia Vaquero. *Role:* Main Sponsor (co-Sponsor: Cate Hartley, Psychology, FAS, NYU).
2. *Funding Agency:* NIH NINDS (2022-2024). *Title:* Optimizing Music-Based Interventions for Stroke Rehabilitation. *Institution:* New York University. *Amount:* \$68,077. *Trainee:* Anna Palumbo. *Role:* Main Sponsor (co-Sponsor: Heidi Schambra, Neurology, Grossman School of Medicine, NYU).
3. *Funding Agency:* Spanish Ministry of Science Visiting Scholar Program (2022-2023). *Title:* Identification of Basic Emotions Through Language Rhythm in Individuals with and without Musical Training. *Institution:* New York University. *Amount:* 21,300\$. *Trainee:* Prof. Rosalía Rodríguez-Vázquez. *Role:* Main Sponsor.

## OTHER (NOT COUNTED FOR THE TOTAL FUNDING)

1. *Funding Agency:* UK Medical Research Council (2022-2025). *Title:* Reward and motivation mechanisms supporting language learning: a cross-syndrome investigation of DLD and autism. *Institution:* University of London. *Amount:* \$948,046. *Role:* collaborator (PI: Saloni Krishnan)

## PUBLICATIONS

The convention in my field is to order author names by contribution with first and second authors and last and second to last authors usually being the main contributors. All publications listed are in peer-reviewed journals or proceedings.

**Total career publications:** 60 published articles. 20 publications plus 6 additional papers under review as an assistant professor (since 2020). From the 26 papers published or under review as an assistant professor, I am a main contributor (first, second, last, or second-last author) in 69% of the works (18 out of 27) and in 50% of these publications (13 out of 26) none of the co-authors are my PhD or Postdoctoral supervisors (Antoni Rodriguez-Fornells, Josep Marco-Pallares, David Poeppel; note however that David Poeppel and I co-supervise a PhD student, Ellie Abrams, and is inevitable that we are co-authors in most of her publications).

**Career citations:** 2822 (1518 since becoming an assistant professor in 2020).

**H-index:** 28

**i-10 index:** 46

### As an assistant professor:

#### Under Review

1. Goldstein, M., Granot, R., **Ripollés, P.\***, Farbood, M\*. (2023). *Exploring Melodic Contour: A Clustering Approach*. (\*equal contribution). **Music Perception**.
2. Zaka, H., Selvarajah, B., Evans, S., **Ripollés, P.**, Krishnan, S. (2023). *The influence of intrinsic reward on word learning in oral and written contexts*. **Journal of Experimental Psychology: Learning, Memory, and Cognition**.
3. Abrams, E.B., Namballa, R., He, R., Poeppel, D., **Ripollés, P.**, (2023). *The rewards of Muzak: elevator music as a tool for the quantitative characterization of emotion and preference*. **Annals of the New York Academy of Sciences**.
4. Zuanazzi, A., **Ripollés, P.**, Lin, W.M., Gwilliams, L., King, J., Poeppel, P. (2023). *Tracking behavioral and neural effects of negation on the representation of abstract concepts*. **Plos Biology**.
5. Pelofi, C., Marion, G., Di Liberto, G., **Ripollés, P.**, Shamma, S. (2023). *Musical enculturation reveals neurophysiological and computational principles of learning*. **Trends in Cognitive Neuroscience**.
6. **Ripollés, P.\***, Belfi, A.M.\*, Kasdan, A. Vessel, E.A., Halpern, A.R., Rowland, J., Hopkins, R., Starr, G., Poeppel, D. (2023). *Highly liked and disliked music engages a domain general valence network*. (\*equal contribution). **Neuroimage**.
7. Georgieva, E., **Ripollés, P.**, Mcfee, B. (2023). *The Changing Sound of Music: An Exploratory Corpus Study of Vocal Trends Over Time*. **TISMIR**.
8. Curzel, F., Osiurak, F., Tran, E., Tillman, B., **Ripollés, P.**, Ferreri, L. (2023) *Enhancing musical pleasure through shared musical experience*. **Scientific Reports**.

- Gomez-Varela, I., Orpella, J., Poeppel, P., **Ripollés, P.**, Assaneo, M.F. (2023). *Syllabic rhythm and prior linguistic knowledge interact with individual differences to modulate phonological statistical learning*. **Cognition**.

## 2023

- Bains, A., Barber, A., Nell, T., **Ripollés, P.\***, & Krishnan, S\*. (2023). *Stage 1 Registered Report. The role of intrinsic reward in adolescent word learning*. **Developmental Science** (accepted in principle; \*equal contribution).
- Vavra, P., Sokolovič, L., Porcu, E., **Ripollés, P.**, Rodriguez-Fornells, A., Noesselt, T. (2023). *Entering into a self-regulated learning mode prevents the detrimental effect of feedback removal on memory*. **NJP Science of Learning**.
- Curzel, F., Carraturo, G., **Ripollés, P.**, Ferreri, L., (2023). *Better off alone? When sharing music reduces pleasure responses*. **Advances in Cognitive Psychology** (accepted).
- Mas-Herrero, E., Singer, N., Ferreri, L., McPhee, M., Zatorre, R.\*, **Ripollés, P.\***. (2023). *Music is negatively correlated to depressive symptoms during the COVID-19 pandemic via reward-related mechanisms*. **Annals of the New York Academy of Sciences**, 00, 1– 13 ( \*equal contribution).
- Bruns, A. Pombo, M., **Ripollés, P.**, Pelli, D. (2023) *Emotions of subject and object affect beauty differently for images and music*. **Journal of Vision**

## 2022

- Abrams, E.M., Munoz-Vidal, E., Pelofi, C.\*, **Ripollés, P.\*** (2022). *Retrieving musical information from neural data: how cognitive features enrich acoustic ones*. **Proceedings of the International Society for Music Information Retrieval** (\*equal contribution; accepted).
- Gospodarek, M., Warusfel, O., **Ripollés, P.**, Roginska, A. (2022). *Methodology for perceptual evaluation of plausibility with self-translation of the listener*. **Audio Engineering Society Conference: International Audio for Virtual and Augmented Reality Conference Paper 44**.
- Orpella, J., Assaneo, M.F., **Ripollés, P.**, Noejovich, L., López-Barroso, D., Diego-Balaguer, R., Poeppel, D., (2022) *Differential activation of a frontoparietal network explains population-level differences in statistical learning from speech*. **PLoS Biology** 20(7): e3001712.
- Pei, Y., Li, Y., **Ripollés, P.** (2022). *Automotive Audio System Evaluation over Headphones Based on the BVIRs of Different Listening Positions: A Case Study of a Specific Audio System*. **Audio Engineering Society Conference: AES 2022 International Automotive Audio Conference Paper 11**.
- Lizcano-Cortés, F., Gómez-Varela, I., Mares, C., Wallisch, P., Orpella, J., Poeppel, D., **Ripollés, P.**, Assaneo, M.F. (2022). *Speech-to-Speech Synchronization protocol to classify human participants as high or low auditory-motor synchronizers*. **STAR Protocols** 3:2.
- Caras, M.L., Happel, M.F.K.; Chandrasekaran, B., **Ripollés, P.**, Keesom, S.M., Hurley, L.M., Remage-Healey, L., Holt, L.L., Wright, B.A. (2022). *Non-sensory Influences on Auditory Learning and Plasticity*. **Journal of the Association for Research in Otolaryngology** 1-16.
- Sihvonen, A.J., Sammler, D., **Ripollés, P.**, Leo, V., Rodríguez-Fornells, A., Soinila, S., and Särkämö, T. (2022) *Right ventral stream damage underlies both post-stroke aprosodia and amusia*. **European Journal of Neurology** 29(3), 873-882.
- Assaneo, M. F., **Ripollés, P.**, Tichenor, S. E., Yaruss, J. S., & Jackson, E. S. (2022). *The Relationship Between Auditory-Motor Integration, Interoceptive Awareness, and Self-Reported Stuttering Severity*. **Frontiers in Integrative Neuroscience**, 48.

## 2021

- Ferreri, L., Mas-Herrero, E., Cardona, G., Zatorre, R.J., Antonijoan, R.M., Valle, M., Riba, J., **Ripollés, P.\*** & Rodriguez-Fornells, A.\* (2021) *Dopamine modulations of reward-driven music memory consolidation*. **Annals of the New York Academy of Sciences** 1502: 85-98 ( \*equal contribution).
- Orpella, J., Mas-Herrero, E., **Ripollés, P.**, Marco-Pallarés, J., de Diego-Balaguer, R. (2021), *Language statistical learning responds to reinforcement learning principles rooted in the striatum*. **PLoS Biology** 19(9): e3001119.
- Sihvonen, A.J., **Ripollés, P.**, Leo, V., Saunavaara, J., Parkkola, R., Rodríguez-Fornells, A., Soinila, S., and Särkämö, T. (2021) *Vocal Music Listening Enhances Poststroke Language Network Reorganization*. **eNeuro** 8, no. 4.
- Pelofi, C., Goldstein, M., Bevilacqua, D., McPhee, M., Abrams, E., & **Ripollés, P.** (2021). *CHILLER: a Computer Human Interface for the Live Labeling of Emotional Responses*. **The international conference in New Interfaces for Musical Expression (NIME 2021)**.

18. Ferreri, L., Singer, N., McPhee, M., **Ripollés, P.**, Zatorre, R. J., & Mas-Herrero, E. (2021). *Engagement in music-related activities during the covid-19 pandemic as a mirror of individual differences in musical reward and coping strategies*. **Frontiers in Psychology**, 12, 2504.

## 2020

19. Orpella J\*, **Ripollés P\***, Ruzzoli M, Amengual JL, Callejas A, Martinez-Alvarez A, Soto-Faraco S, de Diego-Balaguer R. (2020). *Integrating when and what information in the left parietal lobe allows language rule generalization*. **PLoS Biology**. Nov;18(11):e3000895. (\*equal contribution)
20. Sihvonen AJ, Leo V, **Ripollés P**, Lehtovaara T, Ylonen A, Rajanaro P, Laitinen S, Forsblom A, Saunavaara J, Autti T. (2020). *Vocal music enhances memory and language recovery after stroke: pooled results from two RCTs*. **Annals of Clinical Translational Neurology** Nov;7(11):2272-87. PMID:PMC7664275
21. Miro, J., **Ripollés, P.**, Sierpowska, J., Santurino, M., Juncadella, M., Falip, M., Rodriguez-Fornells, A. (2020). *Autobiographical memory in epileptic patients after temporal lobe resection or bitemporal hippocampal sclerosis*. **Brain Imaging Behavior**. Jan 17

## **Before becoming an assistant professor:**

## 2019

22. Assaneo,MF\*, **Ripollés,P\***, Orpella,J.\*, Min Lin,W., De Diego-Balaguer,R., Poeppel,D. (2019) *Spontaneous synchronization to speech reveals neural mechanisms facilitating language learning*. **Nature Neuroscience**, 22, 4 (\*equal contribution).
23. François,C\*, **Ripollés,P\***, Ferreri,L., Muchart,J., Sierpowska,J., Fons,C., Solé,J., Rebollo,M., Zatorre,R., Alix,A., Bosch,L., Rodríguez-Fornells,A. (2019). *Right structural and functional reorganization in 4-year-old children with perinatal arterial ischemic stroke predict language production*. **eNeuro**, 6, 4. (\*equal contribution).
24. Angwin, A.J., Wilson,W.J., **Ripollés,P.**, Rodríguez-Fornells,A., Arnott,W.L., Barry,R.J., Cheng,B.B.Y., Garden,K., & Copland,D.A. *White noise facilitates new-word learning from context*. **Brain and Language** 199, 104699
25. Ferreri, L., Mas-Herrero, E., Zatorre, R.J., **Ripollés, P.**, Gomez-Andres, A., Alicart, H., Olive, G., Marco-Pallares, J., Antonijuan, R.M., Valle, M., Riba, J. & Rodríguez-Fornells, A. (2019) *Dopamine modulates the reward experiences elicited by music*. **PNAS**, 9-116.
26. Assaneo, M. F., Rimmele, J. M., Orpella, J., **Ripollés, P.**, de Diego-Balaguer, R., & Poeppel, D. (2019). *The lateralization of speech-brain coupling is differentially modulated by intrinsic auditory and top-down mechanisms*. **Frontiers in Integrative Neuroscience**, 13, 28.
27. Sihvonen, A. J., Särkämö, T., Rodríguez-Fornells, A., **Ripollés, P.**, Münte, T. F., & Soinila, S. (2019). *Neural architectures of music – Insights from acquired amusia*. **Neuroscience & Biobehavioral Reviews**, 107, 104–114.

## 2018

28. **Ripollés, P.**, Ferreri, L., Mas-Herrero, E., Alicart, H., Gomez-Andres, A., Marco-Pallares, J., Antonijuan, R.M., Noesselt, T., Valle, M., Riba, J., & Rodríguez-Fornells, A. (2018). *Intrinsically regulated learning is modulated by synaptic dopamine signaling*. **eLife**, 7.
29. Vega, D., **Ripollés, P.**, Soto, A., Torrubia, R., Ribas, J., Monreal, J. A., Pascual, J. C., Salvador, R., Pomarol-Clotet, E., Rodríguez-Fornells, A., and Marco-Pallares, J. (2017). *Orbitofrontal overactivation in reward processing in borderline personality disorder: the role of non-suicidal self-injury*. **Brain Imaging and Behavior**. 12, 217-228
30. Simo, M., Rifa-Ros, X., Vaquero, L., **Ripollés, P.**, Cayuela, N., Jove, J., Navarro, A., Cardenal, F., Bruna, J., and Rodríguez-Fornells, A. (2017). *Brain functional connectivity in lung cancer population: an exploratory study*. **Brain Imaging and Behavior**, 12-2.
31. González, M.J., Polo, M.R., **Ripollés, P.**, Gassió, R., Ormazabal, A., Sierra, C., Colomé-Roura, R., Artuch, R. & Camp et al. *White matter microstructural damage in early treated phenylketonuric patients*. **Orphanet Journal of Rare Diseases** 13, 188.
32. Cayuela,N., Simo,M., Majos,C., Rifa-Ros,X., Gallego Perez-Larraya,J., **Ripollés,P.**, Vidal,N., Miro,J., Gil,F., Gil-Gil,M., Plans,G., Graus,F., and Bruna,J (2018). *Seizure-susceptible brain regions in glioblastoma: identification of patients at risk*. **European Journal of Neurology**. 25, 387-394.

## 2017

33. **Ripollés, P.**, Biel,D., Penaloza,C., Kaufmann,J., Marco-Pallares,J., Noesselt,T., and Rodríguez-Fornells,A. (2017). *Strength of Temporal White Matter Pathways Predicts Semantic Learning*. **Journal of Neuroscience**. 37, 11101-11113.
34. Sihvonen,A.J., **Ripollés,P.**, Sarkamo,T., Leo,V., Rodríguez-Fornells,A., Saunavaara,J., Parkkola,R., and Soinila,S. (2017). *Tracing the neural basis of music: Deficient structural connectivity underlying acquired amusia*. **Cortex**. 97, 255-273.

35. Vila-Ballo, A., Mas-Herrero, E., **Ripollés, P.**, Simo, M., Miro, J., Cucurell, D., Lopez-Barroso, D., Juncadella, M., Marco-Pallares, J., Falip, M., & Rodriguez-Fornells, A. (2017). *Unravelling the role of the hippocampus in reversal learning*. **Journal of Neuroscience**. 37, 6686-6697.
36. Sihvonen, A.J., Sarkamo, T., **Ripollés, P.**, Leo, V., Saunavaara, J., Parkkola, R., Rodriguez-Fornells, A., and Soinila, S. (2017) *Functional neural changes associated with acquired amusia across different stages of recovery after stroke*. **Scientific Reports**. 7, 11390.
37. Sihvonen, A.J., **Ripollés, P.**, Rodriguez-Fornells, A., Soinila, S., and Sarkamo, T. (2017). *Revisiting the Neural Basis of Acquired Amusia: Lesion Patterns and Structural Changes Underlying Amusia Recovery*. **Frontiers in Neuroscience**. 11, 426.

#### 2016

38. **Ripollés, P.**, Marco-Pallarés, J., Alicart, H., Tempelmann, C., Rodríguez-Fornells, A., and Noesselt, T. (2016). *Intrinsic monitoring of learning success facilitates memory encoding via the activation of the SN/VTA-Hippocampal loop*. **eLife**, 5.
39. **Ripollés, P.**, Rojo, N., Grau-Sanchez, J., Amengual, J.L., Camara, E., Marco-Pallares, J., Juncadella, M., Vaquero, L., Rubio, F., Duarte, E., Garrido, C., Altenmuller, E., Munte, T.F., and Rodriguez-Fornells, A. (2016). *Music supported therapy promotes motor plasticity in individuals with chronic stroke*. **Brain, Imaging, and Behavior**. 10, 1289-1307.
40. Sihvonen, A.J., **Ripollés, P.**, Leo, V., Rodríguez-Fornells, A., Soinila, S., and Sarkamo, T. (2016). *Neural Basis of Acquired Amusia and Its Recovery after Stroke*. **Journal of Neuroscience**. 36 (34): 8872-8881.
41. François, C., **Ripollés, P.**, Bosch, L., Garcia-Alix, A., Muchart, J., Sierpowska, J., Fons, C., Solé, J., Rebollo, M., Gaitán, H. Rodriguez-Fornells, A. (2016). *Language Learning and Brain Reorganization In a 3.5-Year-Old Child With Left Perinatal Stroke Revealed Using Structural and Functional Connectivity*. **Cortex**. 77: 95-118.
42. Vaquero, L., Hartmann, K., **Ripollés, P.**, Rojo, N., Sierpowska, J., Francois, C., Camara, E., van Vugt, F.T., Mohammadi, B., Samii, A., Munte, T.F., Rodriguez-Fornells, A., and Altenmuller, E. (2016). *Structural neuroplasticity in expert pianists depends on the age of musical training onset*. **Neuroimage**. 126, 106-119.
43. Simo, M., Vaquero, L., **Ripollés, P.**, Guturbay, A., Jove, J., Navarro, A., Cardenal, F., Bruna, J., and Rodriguez-Fornells, A. (2016). *Longitudinal Brain Changes Associated with Prophylactic Cranial Irradiation in Lung Cancer*. **J. Thorac. Oncol**. 11, 475-486
44. Simo, M., Vaquero, L., **Ripollés, P.**, Jove, J., Fuentes, R., Cardenal, F., Rodriguez-Fornells, A., and Bruna, J. (2016). *Brain damage following prophylactic cranial irradiation in lung cancer survivors*. **Brain Imaging and Behavior**. 10, 283-295.

#### 2015

45. Lopez-Barroso, D.\*, **Ripollés, P.\***, Marco-Pallares, J., Mohammadi, B., Munte, T.F., Bachoud-Levi, A.C., Rodriguez-Fornells, A., and de Diego-Balaguer, R. (2015). *Multiple brain networks underpinning word learning from fluent speech revealed by independent component analysis*. **Neuroimage**. 110, 182-193 (\*equal contribution).
46. Mas-Herrero, E.\*, **Ripollés, P.\***, HajiHosseini, A., Rodriguez-Fornells, A., and Marco-Pallares, J. (2015). *Beta oscillations and reward processing: Coupling oscillatory activity and hemodynamic responses*. **Neuroimage**. 119, 13-19 (\*equal contribution).
47. Simo, M., **Ripollés, P.**, Fuentemilla, L., Vaquero, L., Bruna, J., and Rodriguez-Fornells, A. (2015). *Studying memory encoding to promote reliable engagement of the medial temporal lobe at the single-subject level*. **PLoS One**. 10, e0119159.
48. Miro, J., Gurtubay-Antolin, A., **Ripollés, P.**, Sierpowska, J., Juncadella, M., Fuentemilla, L., Sanchez, V., Falip, M., and Rodriguez-Fornells, A. (2015). *Interhemispheric microstructural connectivity in bitemporal lobe epilepsy with hippocampal sclerosis*. **Cortex**. 67, 106-121.
49. Simo, M., Root, J.C., Vaquero, L., **Ripollés, P.**, Jove, J., Ahles, T., Navarro, A., Cardenal, F., Bruna, J., and Rodriguez-Fornells, A. (2015). *Cognitive and brain structural changes in a lung cancer population*. **Journal of Thoracic Oncology** 10, 38-45.

#### 2014

50. **Ripollés, P.**, Marco-Pallares, J., Hielscher, U., Mestres-Misse, A., Tempelmann, C., Heinze, H.J., Rodriguez-Fornells, A., and Noesselt, T. (2014). *The Role of Reward in Word Learning and Its Implications for Language Acquisition*. **Current Biology**. 24, 2606-2611.
51. Molinuevo, J.L., **Ripollés, P.**, Simo, M., Llado, A., Olives, J., Balasa, M., Antonell, A., Rodriguez-Fornells, A., and Rami, L. (2014). *White matter changes in preclinical Alzheimer's disease: a magnetic resonance imaging-diffusion tensor imaging study on cognitively normal older people with positive amyloid beta protein 42 levels*. **Neurobiology of Aging**. 35, 2671-2680.

52. Sarkamo, T., **Ripollés, P.**, Vepsäläinen, H., Autti, T., Silvennoinen, H.M., Salli, E., Laitinen, S., Forsblom, A., Soinila, S., and Rodríguez-Fornells, A. (2014). *Structural changes induced by daily music listening in the recovering brain after middle cerebral artery stroke: a voxel-based morphometry study*. **Frontiers in Human Neuroscience**. 8, 245.
53. Miro, J.\*, **Ripollés, P.\***, Lopez-Barroso, D., Vila-Ballo, A., Juncadella, M., de Diego-Balaguer, R., Marco-Pallares, J., Rodríguez-Fornells, A., and Falip, M. (2014). *Atypical language organization in temporal lobe epilepsy revealed by a passive semantic paradigm*. **BMC Neurology**. 14, 98 (\*equal contribution).
54. Tuomiranta, L.M., Camara, E., Froudast, W.S., **Ripollés, P.**, Saunavaara, J.P., Parkkola, R., Martin, N., Rodríguez-Fornells, A., and Laine, M. (2014). *Hidden word learning capacity through orthography in aphasia*. **Cortex** 50, 174-191.

## 2013

55. Fuentemilla, L., Miro, J., **Ripollés, P.**, Vila-Ballo, A., Juncadella, M., Castaner, S., Salord, N., Monasterio, C., Falip, M., and Rodríguez-Fornells, A. (2013). *Hippocampus-dependent strengthening of targeted memories via reactivation during sleep in humans*. **Current Biology**. 23, 1769-1775.
56. Lopez-Barroso, D., Catani, M., **Ripollés, P.**, Dell'Acqua, F., Rodríguez-Fornells, A., and de Diego-Balaguer, R. (2013). *Word learning is mediated by the left arcuate fasciculus*. **PNAS**. 110, 13168-13173.
57. Forn, C., **Ripollés, P.**, Cruz-Gomez, A.J., Belenguer, A., Gonzalez-Torre, J.A., and Avila, C. (2013). *Task-load manipulation in the Symbol Digit Modalities Test: an alternative measure of information processing speed*. **Brain and Cognition**. 82, 152-160.
58. Sierpowska, J., Gabarros, A., **Ripollés, P.**, Juncadella, M., Castaner, S., Camins, A., Plans, G., and Rodríguez-Fornells, A. (2013). *Intraoperative electrical stimulation of language switching in two bilingual patients*. **Neuropsychologia** 51, 2882-2892.

## 2012

59. **Ripollés, P.**, Marco-Pallares, J., de Diego-Balaguer, R., Miro, J., Falip, M., Juncadella, M., Rubio, F., and Rodríguez-Fornells, A. (2012). *Analysis of automated methods for spatial normalization of lesioned brains*. **Neuroimage**. 60, 1296-1306.
60. Rodríguez-Fornells, A., Rojo, N., Amengual, J.L., **Ripollés, P.**, Altenmüller, E., and Munte, T.F. (2012). *The involvement of audio-motor coupling in the music-supported therapy applied to stroke patients*. **Ann. N. Y. Acad. Sci.** 1252, 282-293.
61. Amengual, J.L., Valero-Cabre, A., de las Heras, M.V., Rojo, N., Froudast-Walsh, S., **Ripollés, P.**, Bodammer, N., Mohammadi, B., Montero, J., Grau, C., Munte, T.F., and Rodríguez-Fornells, A. (2012). *Prognostic value of cortically induced motor evoked activity by TMS in chronic stroke: caveats from a revealing single clinical case*.

## PRESENTATIONS

### As an assistant professor:

1. *Title*: The Music of Cognitive Neuroscience. *Event*: Columbia's Cognitive and Behavioral Neuroscience Seminar, Columbia University, USA (2024).
2. *Title*: Exploring the Unexpected Dimensions of Wellness. *Event*: InSpire Science, NYU Langone, USA (2023).
3. *Title*: Music as a tool to study the mind. *Event*: Neuroscience and Cognitive Sciences (NACS) Colloquium series, University of Maryland, USA (2023).
4. *Title*: Music, neuroscience, and health. *Event*: Musicoterapia Emociones y Tecnología, UNED, Albacete, Spain (2023).
5. *Title*: The benefits of music on wellness. *Event*: III Conference of Music, Arts and Health, Castellon, Spain (2023).
6. *Title*: The role of dopaminergic and reward-related circuits in language learning and music memory. *Event*: NYU Neuroscience Retreat, New York, USA (2023).
7. *Title*: Unveiling the biological mechanisms supporting cognitive decline in COVID-19. *Event*: TMC Covid-19 Cognition Meeting, New Jersey (2022).
8. *Title*: Learning music: from research-methods to real-world applications. *Event*: Learning music: structure and sequences, Center for Language, Music, and Emotion, New York, USA (2022).
9. *Title*: Music-based rehabilitation: from motor to mental-health benefits. *Event*: Neurotechnologies that Connect Music with the Brain, Chen Institute of Shanghai, Shanghai, China (2022).

10. *Title:* The cognitive Neuroscience of Music. *Event:* II Conference of Music, Arts and Health, Castellon, Spain (2022).
11. *Title:* The reward of music. *Event:* Annual Grace Church High School Conference, New York, USA (2022).
12. *Title:* Neuroanatomical correlates of word learning. *Event:* Cognitive & Comparative Psychology Doctoral Program's Colloquium Series, City University of New York, New York, USA (2021).
13. *Title:* The Cognitive Neuroscience of Music and the Music of Cognitive Neuroscience. *Event:* CAS Scholars Lecture Series, New York University, New York, USA (2021).
14. *Title:* Musical pleasure as a tool to improve memory and affect. *Event:* The Neuroscience of Music VII Conference, Aarhus, Denmark (2021).
15. *Title:* The role of dopaminergic and reward-related circuits in language learning and music memory. *Event:* Cognitive Brain Research Unit Seminar Series, Helsinki, Finland (2021).
16. *Title:* Non-Sensory Influences on Auditory Learning and Plasticity. *Event:* ARO Midwinter Meeting, USA (2021)
17. *Title:* Language and Emotion. *Event:* Emotions in the Arts, Humanities, and Sciences, Center for Language, Music, and Emotion, New York, USA (2021).
18. *Title:* The Role of Reward in Word Learning. *Event:* Neuroscience Seminar Series, Instituto de Neurobiología, Universidad Autónoma de México, Querétaro, México, 2020)

**Before becoming an assistant professor:**

19. *Title:* Musical Reward. *Event:* Perception and Evaluation: The Case of Music, Center for Language, Music, and Emotion, New York, USA (2019).
20. *Title:* Fueling speech: the role of reward in word-learning. *Event:* Beyond Language Learning Workshop, University of Barcelona, Barcelona, Spain (2016).

## TEACHING EXPERIENCE

**As an assistant professor:**

1. Instructor, Psychology of Music (MPATC-GE 2042, Elective), Music Technology, Steinhardt, New York University (Fall 2020, Fall 2021, Fall 2022, Spring 2023)
2. Instructor, Cognitive Neuroscience (PSYCH-UA 25, Core), Psychology, FAS, New York University (Spring, 2021)
3. Instructor, The Cognitive Neuroscience of Music and the Music of Cognitive Neuroscience (PSYCH-GA 3405, Elective), Psychology, FAS, New York University (Fall 2021)
4. Instructor, Honors Seminar II (PSYCH-UA 201, Core), Psychology, FAS, New York University (Spring, 2023)

**Before becoming an assistant professor:**

5. Teaching Assistant, Analytical thinking and problem solving (UG, Core), Psychology, University of Barcelona (Spring 2014, Spring 2015)

## SUPERVISORY ROLES

**UNDERGRADUATE HONORS THESIS**

1. Allison Venz, Psychology, FAS, New York University (2020). Role: Main Supervisor.

**RESEARCH ASSISTANTS**

1. Michael Mcphee. Full Time Lab Manager, Ripolles Lab, New York University (2020-2022). Role: Main Supervisor. Now a PhD Student at Northeastern.



2. Karleigh Groves. Full Time Lab Manager, Ripolles Lab, New York University (2022-present). *Role:* Main Supervisor.
3. Richa Namballa. Part Time Research Assistant, Ripolles Lab, New York University (2021-present). *Role:* Main Supervisor. Currently a Master Student in the Music Tech program (Steinhardt, New York University).
4. Eva Munoz-Vidal. Part Time Research Assistant, Ripolles Lab, New York University (2022). *Role:* Main Supervisor. Currently a PhD student at University of Vienna.

## **MASTER STUDENTS**

Note: For Master students in the Music Technology program, a main or secondary advisor regularly mentors the student and is primarily responsible for their thesis. A second reader reviews the thesis document once it is submitted by the student and is part of the Master Thesis Defense committee.

### **As an assistant professor:**

1. Richard He, Psychology, FAS, New York University (2023). *Role:* Main Advisor.
2. Jun Guo, Music Technology, Steinhardt, New York University (2023). *Role:* Main Advisor.
3. Tyler Kennedy, Music Technology, Steinhardt, New York University (2023). *Role:* Main Advisor.
4. Tiffany Cui, Music Technology, Steinhardt, New York University (2023). *Role:* Main Advisor.
5. Kevin Liu, Music Technology, Steinhardt, New York University (2023). *Role:* Main Advisor.
6. Mariano Flores-Rodriguez, Music Technology, Steinhardt, New York University (2022). *Role:* Main Advisor.
7. Ian Rumsey, Music Technology, Steinhardt, New York University (2023). *Role:* Secondary Advisor.
8. Emil Berg, Music Technology, Steinhardt, New York University (2023). *Role:* Secondary Advisor.
9. Aizhou Liu, Music Technology, Steinhardt, New York University (2022). *Role:* Secondary Advisor.
10. Yukun Pei, Music Technology, Steinhardt, New York University (2021). *Role:* Secondary Advisor.
11. Darro Chea, Music Technology, Steinhardt, New York University (2020). *Role:* Secondary Advisor.
12. Ian McNally, Music Technology, Steinhardt, New York University (2022). *Role:* Second Reader.
13. Kerri Chandler, Music Technology, Steinhardt, New York University (2022). *Role:* Second Reader.
14. Axel Borgmo, Music Technology, Steinhardt, New York University (2022). *Role:* Second Reader
15. Spencer Camacho, Music Technology, Steinhardt, New York University (2022). *Role:* Second Reader
16. David Schnug, Music Technology, Steinhardt, New York University (2022). *Role:* Second Reader
17. Kerri Chandler, Music Technology, Steinhardt, New York University (2021). *Role:* Second Reader.
18. Blake Rook, Music Technology, Steinhardt, New York University (2021). *Role:* Second Reader.
19. Sebrina Cheng-Chun Hsieh, Music Technology, Steinhardt, New York University (2020). *Role:* Second Reader.
20. Hyakub Herring, Music Technology, Steinhardt, New York University (2020). *Role:* Second Reader.
21. Wei Tsung Lu, Music Technology, Steinhardt, New York University (2020). *Role:* Second Reader.
22. Kevin Rauchenberger, Music Technology, Steinhardt, New York University (2020). *Role:* Second Reader.
23. Karolos Orfanos, Music Technology, Steinhardt, New York University (2020). *Role:* Second Reader.
24. Julian Cornell, Music Technology, Steinhardt, New York University (2020). *Role:* Second Reader.

### **Before becoming an assistant professor:**

25. Davina Biel, Master in Neurosciences, University of Bremen, Germany (2016). *Role:* Main advisor
26. Omar Ferrus, University of Valencia, Spain (2016). *Role:* Main advisor Julian Cornell, Music Technology, Steinhardt, New York University (2020). *Role:* Second Reader.

## **PH.D. STUDENTS**

1. Michal Goldstein, Music Technology, Steinhardt, New York University. Co-supervised with Mary Farbood (2020-present).
2. Elena Georgieva, Music Technology, Steinhardt, New York University. Co-supervised with Brian Mcfee (2020-present).

3. Ellie Abrams, Psychology, FAS, New York University. Co-supervised with David Poeppel (2020-present).
4. Anna Palumbo, Rehabilitation Sciences, Steinhardt, New York University. Co-supervised with Jerry Voebel (2021-present).
5. Brandon Carone, Psychology, FAS, New York University (2021-present).
6. Noha Ahmed, Psychology, FAS, New York University (2022-present).

#### **POST-DOCTORAL FELLOWS**

1. Joan Orpella, Psychology, FAS, New York University. Co-supervised with David Poeppel (2020-present).
2. Lucia Vaquero, Psychology, FAS, New York University. Co-supervised with Cate Hartley (2023-present).

#### **PSYCHOLOGY PHD ADVISORY COMMITTEES**

In the Cognition and Perception PhD Program (Psychology, FAS, New York University) each PhD student has an advisory committee formed by their main supervisor and two other faculty members. The role of this committee is to track the progress of the PhD student and provide additional support in case it is needed.

1. Michael Evans (2020-2021)
2. Perri Lane (2020-2021)
3. Hillary Raab (2020-2021)
4. Suhail Matar (2020-2021)
5. Kate Nussenbaum (2020-2023)
6. Maria Pombo (2020-present)
7. Helena Palmieri (2020-present)
8. Josie Benitez (2020-present)
9. Ying Zhou (2020-present)
10. Marianne Azar (2021-present)
11. Ellie Abrams (2020-present)
12. Brandon Carone (2021-present)
13. Noha Ahmed (2023-present)

#### **PSYCHOLOGY PHD SECOND MENTOR PROGRAM**

In the Cognition and Perception PhD Program (Psychology, FAS, New York University) each PhD student can choose to have a “second mentor”. This “second mentor” is a faculty member other than the PhD student’s main advisor or co-advisor. The role of the “second mentor” is to schedule informal meetings with the PhD student and provide additional mentoring opportunities and support.

1. Suhail Matar (2020-2021)
2. Josie Benitez (2020-present)
3. Maria Pombo (2020-present)
4. Marianne Azar (2021-present)
5. Marco Lai (2021-present)

#### **PHD DEFENSE COMMITTEES**

1. Kate Nussenbaum, Psychology, FAS, New York University, 2023
2. Willie Payne, Music Technology, Steinhardt, New York University, 2023
3. Suhail Matar, Psychology, FAS, New York University, 2022
4. Perri Katzman, Psychology, FAS, New York University, 2021
5. Hillary Raab, Psychology, FAS, New York University, 2021

## SERVICE

### UNIVERSITY SERVICE

1. MARL Associate Director (2020-present)
2. Steinhardt Doctoral Funding Committee (2023-present)
3. Co-Chair of the Music Tech Diversity, Equity, and Inclusivity Research Committee (2021-present)
4. Music Technology-IDM, Joint Faculty Search Committee (Spring 2021)
5. Psychology Faculty-Postdoc Liaison (2021-present)
6. Center for Brain Imaging Committee (2022-present)
7. Psychology Diversity Equity and Inclusivity Committee (2021-2023)
8. Psychology EPC Committee (2020-2022)
9. DURF Application Review Committee (2021, 2022)
10. Proud to Be First's Faculty Connect program (2020,2021)
11. Psychology Cognitive Neuroscience Faculty Search Committee (2022-2023)

### PROFESSIONAL SERVICE

1. Ad hoc peer reviewer: Nature Human Behavior, Current Biology, Journal of Neuroscience, NeuroImage, NeuroImage Clinical, Scientific Reports, Plos One, Journal of Neuroscience Methods, Frontiers in Psychology, Frontiers in Neuroscience, BMC Neurology, Brain Research, Neuroradiology, among others.
2. Grant reviewer for the National Institute on Deafness and Other Communication Disorders (NIDCD,NIH, USA, 2023)
3. Grant reviewer for the European Science Foundation (2020, 2022)
4. Grant reviewer for the Spanish Ministry of Science (2021)
5. Mentor for the ARISE (Applied Research Innovations in Science and Engineering) STEM program for New York City 10th and 11th Graders (2021, 2022)
6. Taste of Science (Neuroscience of Music, 2017)
7. Meet a Scientist (Institute for Collaborative Education high school, 2018, 2019).

## MEDIA

### As an assistant professor:

1. Wrong Answers Only (2023): [Music and the Brain](#)
2. Everyday Health (2022): [Music Therapy is a Powerful Tool for Stroke Recovery](#)
3. II International Conference of Music, Arts, and Health (2022): [Video Summary](#)
4. ArtsEduca Magazine (2022): [Interview with Pablo Ripolles](#)
5. American Heart Association News (2022): [The Healing Power of Music for Stroke Survivors](#)
6. Littlefield New York (2021): [Drunk Science Presents Music and the Brain](#)
7. Emotional Brain Institute (2021): [Music, Health, and Healing](#)
8. Behavioral Grooves Podcast (2021): [Why Music Makes you Feel Better](#)
9. Center for Language, Music, and Emotion (2021): [In Discussion with Trevor Gureckis](#)
10. The New York Times (2020): [Your Most-Played Song of 2020 Is ... White Noise?](#)
11. The Wall Street Journal (2020): [A Musical Cure For Covid-Related Stress and Sadness](#)
12. NYC Media Lab Summit (2020): [In Conversation with Vernon Reid](#)
13. New York University Alumni Magazine (2020): [Emotion Detectors](#)

### Before becoming an assistant professor:

14. The Conversation (2019): [Repita la silaba Ta y le diremos cómo funciona su cerebro](#)
15. Science Daily (2014): [The Pleasure of Learning New Words](#)
16. Metode Magazine (2014): [From Paper to the Press: a Controversial Process](#)