

Etienne Thoret

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Research

Institute of Language, Communication & the Brain (ILCB) <i>Post-doctoral fellow</i> Supervision: Richard Kronland-Martinet (PRISM), Stéphane Ayache (LIS) & Valentin Emiya (LIS)	Marseille <i>Oct. 2019 - now</i>
Laboratoire des Systèmes Perceptifs - ENS <i>Post-doctoral fellow</i> Supervision: Daniel Pressnitzer & Christian Lorenzi	Paris <i>Jan. 2019 – March. 2019 (3 months)</i>
Schulich School of Music - McGill University <i>Post-doctoral fellow</i> Supervision: Stephen McAdams & Philippe Depalle	Montreal <i>Sept. 2015 – Sept. 2018 (3 years)</i>
Laboratoire de Mécanique et d'Acoustique - CNRS <i>Ph.D Student</i> Supervision: Sølvi Ystad & Mitsuko Aramaki	Marseille <i>Feb. 2011 – Oct. 2014 (3 years)</i>

Education

Laboratoire de Mécanique et d'Acoustique - CNRS - UPR7051 <i>Ph.D Student, Acoustics</i>	Marseille <i>2011 – 2014</i>
Aix-Marseille Université <i>MSc in Acoustics, with first class honours</i>	Marseille <i>2010 – 2011</i>
Université Pierre et Marie Curie - Paris VI <i>MA in Urban & Architectural Acoustics, with honours</i>	Paris <i>2008 – 2010</i>
Université d'Orsay - Paris Sud XI <i>BSc in Fundamental Physics</i>	Paris <i>2007 – 2008</i>

Other professional experience

Gamba Acoustique Industrie et Environnement <i>Internship</i> Acoustic waves diffraction by noise barriers for short source-receptor distances	Garges les Goneses <i>Mar. 2010 – Aug. 2010 (6 months)</i>
Gamba Acoustique Eolien <i>Internship</i> Impact studies of noise pollution produced by wind farms : measures and modeling	Garges les Goneses <i>May 2009 – Jul 2009 (3 months)</i>
Concert hall Le Bataclan <i>Sound Engineer Assistant</i>	Paris <i>Jun. 2008 – Jul. 2008 (2 months)</i>

Responsibilities and Congress organizations

CIRM, Marseille, 15 - 19 February 2021

Mathematics for Audio and Music Signal Processing

Organising committee - <https://conferences.cirm-math.fr/2475.html>

McGill University, Montreal 5-7 July 2018

Timbre Conference: Timbre is a Many-Splendored Thing

Paper Chair - <https://www.mcgill.ca/timbre2018/>

Elected member of the LMA-CNRS laboratory council - Oct. 2012 - Oct. 2013

Ph.D Students representant

CMMR 2013, Sound, Music and Motion, 15-18 Oct. 2013, Marseille

10th International Symposium on Computer Music Multidisciplinary Research (CMMR)

Communication and Sponsoring Chair - <http://www.cmmr2013.cnrs-mrs.fr/>

JJCAAS, 5-7 Dec., 2012, Marseille

8th JJCAAS - Journées Jeunes Chercheurs en Audition, Acoustique musicale et Signal audio

President of the organizing committee - <http://www.jjcaas2012.cnrs-mrs.fr/>

Reviewing activities

Peer-reviewed journals:

- Scientific Reports (2015)
- ACM Transactions on Applied Perception (2016, 2020)
- International Journal of Human-Computer Studies (2016)
- The Journal of the Acoustical Society of America (2017)
- Journal of Experimental Psychology: Human Perception & Performance (2017)
- IEEE Transactions on Human-Machine System (2018)
- Behavior Research Methods (2019)

Program committee member:

- Computer Music Multidisciplinary Research conference (CMMR) (2017)

Subreviewer for international conferences:

- Sound and Music Computing conference (SMC) (2012 - 2013 - 2014 - 2015 - 2016)
- Stockholm Music Acoustics Conference (SMAC) (2013)
- International Computer Music Conference (ICMC) (2014)
- Computer Music Multidisciplinary Research conference (CMMR) (2013 - 2015)
- International Conference on Movement and Computing (MOCO) (2017)
- International Conference on Digital Audio Effects (DAFx) (2018 - 2019)

Student Supervision (7)

Paul Lalande-Robert (co-supervised with B.Morrillon & P. Belin), Master 2 (2021)

Max Henry (co-supervised with S.McAdams), MSc Music Technology, McGill University (2019-2020)

Lena Heng (co-supervised with S.McAdams), Master Musicology, McGill University (2018)

Manda Fisher (co-supervised with S.McAdams), BSc Music McGill University (2016)

Grace Wang (co-supervised with S.McAdams), BSc Cognitive Neuroscience McGill University (2016)

Thomas Bordonné, École Centrale Marseille – 3 months (2014)

Thibaud Lemoine, École Centrale Marseille – 3 months (2013)

Awards

- Nominated at the Young researcher in Science & Music prize for a large public article: Ecouter les gestes et dessiner les sons (Hearing gestures and drawing sounds) - <http://jsm2017.irisa.fr/prix/>
- Best paper in sound synthesis in the international conference DAFx, Maynooth, Ireland Sept. 2013:
Conan S., **Thoret E.**, Aramaki M., Derrien O., Gondre C., Kronland-Martinet R., and Ystad S. (2013). Navigating in a Space of Synthesized Interactions-Sounds: Rubbing, Scratching and Rolling, *Proceedings of the 16th Conference on Digital Audio Effects (DAFx)*, Maynooth, Ireland, Sept. 2013

Languages

French: Native

English: Proficient in spoken and written English

Computer skills

Programming languages: C/C++, Matlab, Python

Real time audio coding: Max/MSP, Jitter, Pure Data

Statistics: Statistica, SPSS

Acoustic field measures and modeling: Adobe Audition, AcouS Propa, Diag.LEXD, CATT Acoustic, Google SketchUp

Publications List (November 2020)

Google Scholar: scholar.google.fr/citations?user=mmriWwoAAAAJ&hl=fr&oi=ao

Metrics

1. **Peer-reviewed articles:** 12
2. **First author:** 8
3. **Book chapters:** 3
4. **Citations:** 323 (scholar)
5. **h-index:** 11 (scholar)

Preprints (1)

1. **Thoret, E.**, Andrillon, T., Léger, D., Pressnitzer, D. (2020) Probing machine-learning classifiers using noise, bubbles, and reverse correlation, *bioRxiv*, doi:10.1101/2020.06.22.165688

Peer-Reviewed Academic Journals (12)

12. **Thoret, E.**, Caramiaux, B., Depalle, P., McAdams, S. (In Press) Learning metrics on spectrotemporal modulations reveals the perception of musical instrument timbre. *Nature Human Behaviour*
11. Noble, J., **Thoret, E.**, Henry, M., McAdams, S. (In press) Semantic Dimensions of Sound Mass Music: An Exploration of Mappings between Perceptual and Acoustical Domains. *Music Perception*, 28(2), 211-239
10. **Thoret, E.***, Varnet, L.*, Boubenec, Y., Férrière, R., Le Tourneau, F-M, Krause B., Lorenzi, C. (2020) Characterizing amplitude and frequency modulation cues in natural soundscapes: A pilot study on four habitats of a biosphere reserve, *The Journal of the Acoustical Society of America*, 147(5), 3260-3274 doi:10.1121/10.0001174. ISSN: 0001-4966
9. **Thoret, E.**, Depalle, P., McAdams, S. (2017) Perceptually Salient Regions of the Modulation Power Spectrum for Musical Instrument Identification. *Frontiers in Psychology*. 8, 587 doi:10.3389/fpsyg.2017.00587 ISSN: 1664-1078
8. **Thoret, E.**, Depalle, P., McAdams, S. (2016) Perceptually salient spectro-temporal modulations for recognition of sustained musical instruments. *The Journal of the Acoustical Society of America*, 140(6), EL478-EL483. doi:10.1121/1.4971204. ISSN: 0001-4966
7. **Thoret, E.**, Aramaki, M., Gondre C., Ystad S., Kronland-Martinet R. (2016) Eluding the Physical Constraints in a Nonlinear Interaction Sound Synthesis Model for Gesture Guidance. *Applied Sciences*. 6(7), 192. doi:10.3390/app6070192. ISSN: 2076-3417
6. **Thoret, E.**, Aramaki, M., Bringoux L., Ystad S., Kronland-Martinet R. (2016) Seeing circles and drawing ellipses: when sound biases reproduction of visual motion. *PLoS one*. 11(4): e0154475. doi:10.1371/journal.pone.0154475. ISSN: 1932-6203
5. **Thoret, E.**, Aramaki, M., Bringoux L., Ystad S., Kronland-Martinet R. (2016) When eyes drive hand: influence of non-biological motion on visuo-motor coupling. *Neuroscience Letters*, 612, 225-230 doi:10.1016/j.neulet.2015.12.022. ISSN: 0304-3940
4. Danna, J., Fontaine, M., Paz-Villagran, V., Gondre, C., **Thoret, E.**, Aramaki, M., Kronland-Martinet, R., Ystad, S., Velay, J.-L. (2015). The effect of real-time auditory feedback on learning new characters. *Human*

Movement Science, 43, 216-228. doi:10.1016/j.humov.2014.12.002. ISSN: 0167-9457

3. Conan, S., **Thoret, E.**, Aramaki, M., Derrien, O., Gondre, C., Kronland-Martinet, R., Ystad, S. (2014). An Intuitive Synthesizer of Continuous Interaction Sounds: Rubbing, Scratching and Rolling. *Computer Music Journal*, 38(4), 24-37. *Invited paper*. doi:10.1162/COMJ_a_00266. ISSN: 0148-9267
2. **Thoret, E.**, Aramaki, M., Kronland-Martinet, R., Velay, J. L., Ystad, S. (2014). From Sound to Shape: Auditory Perception of Drawing Movements, *Journal of Experimental Psychology : Human Perception and Performance*, 40(3), 983-994. doi:10.1037/a0035441. ISSN: 0096-1523
1. Danna, J., Paz-Villagran, V., Velay, J.-L., Gondre, C., Kronland-Martinet, R., Ystad, S., Aramaki, M., **Thoret, E.**, Conan, S., Voinier, T., Omer, H., Torr sani, B. (2012). Sonifier l'écriture : un outil pour le diagnostic et la rem diation de la dysgraphie, *D veloppements*, 12, 2012, 32-40. doi:10.3917/deve1.012.0032. ISSN: 2103-2874 – ISBN: 9782353271818

*The authors equally contributed to this work

In revision - Under review (2)

- . **Thoret, E.**, Andrillon, T., L ger, D., Pressnitzer, D. (In revision) Probing machine-learning classifiers using noise, bubbles, and reverse correlation
- . Fischer, M., Soden, K., **Thoret, E.**, Montrey, M., McAdams, S. (In revision) The role of instrument timbre in perceptual segregation in orchestral music

Book Chapters (3)

3. **Thoret, E.**, Aramaki, M., Bourdin C., Bringoux L., Kronland-Martinet R., Ystad S. (2014). Audio-motor synchronization: the effect of mapping between kinematics and acoustic cues on geometric motor features. In *Sound, Music and Motion*, LNCS 8905, pp234-245, Springer Berlin Heidelberg. doi:10.1007/978-3-319-12976-1_15. ISBN (print): 978-3-319-12975-4 – ISBN (online): 978-3-319-12976-1
2. Danna J., Velay J.L., Paz-Villagr n V., Capel A., P troz C., Gondre C., **Thoret E.**, Aramaki M., Ystad S., Kronland-Martinet, R. (2014) Movement sonification for the diagnosis and the rehabilitation of graphomotor disorders. In *Sound, Music and Motion*, LNCS 8905, pp246-255, Springer Berlin Heidelberg. doi:10.1007/978-3-319-12976-1_16. ISBN (print): 978-3-319-12975-4 – ISBN (online): 978-3-319-12976-1
1. **Thoret, E.**, Aramaki, M., Kronland-Martinet, R., Velay, J. L., Ystad, S. (2013). Reenacting sensorimotor features of drawing movements from friction sounds. In *From Sounds to Music and Emotions*, LNCS 7900, 130-153. Springer Berlin Heidelberg doi:10.1007/978-3-642-41248-6_8. ISBN (print): 978-3-642-41247-9 – ISBN (online): 978-3-642-41248-6

Book edition (1)

1. **Thoret, E.**, Goodchild, M., McAdams, S. (2018). *Timbre 2018: Timbre is a many-splendored thing*. ISBN (online): 978-1-77247-013-0

Thesis (1)

1. **Thoret, E.** (2014) Acoustic characterisation of relations between biological movements and auditory perception: applications to the control of sound synthesis and gesture learning, Caract risation acoustique des relations entre les mouvements biologiques et la perception sonore : application au contr le de la synth se et   l'apprentissage de gestes, Ph.D Thesis, Aix-Marseille Universit 

Articles or abstracts in international peer reviewed conferences (25)

25. **Thoret, E.**, Caramiaux, B., Depalle, P., McAdams, S. (2020) The different facets of timbre: data-driven modelling of musical instruments sounds perception, *Forum Acusticum*, Lyon, 20-24 April 2020 – Oral
24. **Thoret, E.**, Andrillon, T., Gauriau, C., Léger, D., Pressnitzer, D. (2020) Sleep restriction Affects The Acoustic Properties Of Human Speech, *SLEEP 2020, the 34th Annual Meeting of the Associated Professional Sleep Societies, LLC* – Poster
23. **Thoret, E.**, Andrillon, T., Gauriau, C., Léger, D., Pressnitzer, D. (2020) Sleep deprivation impact speech spectro-temporal modulations, *Forum Acusticum*, Lyon, 20-24 April 2020 – Oral
22. Noble, J., Henry, M., **Thoret, E.**, McAdams, S. (2019) Analyzing Assimilated Musical Scenes: Sound Mass Perception and its Acoustical Correlates. *Hearing (musical) scenes. International symposium on auditory scene analysis*, Delmenhorst, March 27-29, 2019
21. Noble, J., Henry, M., **Thoret, E.**, McAdams, S. (2019) Metaphorical Associations in Sound-Based Music as Mappings between Acoustical Properties and Semantic Domains, *Society for Music Perception & Cognition 2019 (SMPC)* – Oral
20. Fischer, M., Soden, K., **Thoret, E.**, Montrey, M., McAdams, S. (2019) The role of timbre in perceptual segregation in orchestral music, *Society for Music Perception & Cognition 2019 (SMPC)* – Oral
19. Noble, J., Henry, M., **Thoret, E.**, McAdams, S. (2018) Timbre and Semantics in Sound Mass Music, *Timbre is a many-splendored thing*, Montreal, 5-7 July 2018 – Oral
18. **Thoret, E.**, Caramiaux, B., Depalle, P., McAdams, S. (2018) A computational meta-analysis of human dissimilarity ratings of musical instrument timbre, *Timbre is a many-splendored thing*, Montreal, 5-7 July 2018 – Oral
17. **Thoret, E.**, Caramiaux, B., Depalle, P., McAdams, S. (2018) Human dissimilarity ratings of musical instrument timbre: a computational meta-analysis, *175th Acoustical Society of America Meeting*, Minneapolis, Minnesota, 7-11 May 2018 – Poster
16. **Thoret, E.**, Depalle, P., McAdams, S. (2017) Meta-analysis of studies on timbre dissimilarity based on spectrotemporal modulation representations, *International Symposium on Musical Acoustics (ISMA)*, McGill University, Montreal, June 18-22, 2017 – Oral
15. **Thoret, E.**, Depalle, P., McAdams, S. (2016) Influence of spectrotemporal modulations on the recognition of musical instrument sounds, *Auditory Perception, Cognition, and Action Meeting (APCAM)*, Boston, Massachusetts, November 17, 2016 – Poster
14. **Thoret, E.**, Aramaki, M., Ystad, S., Kronland-Martinet, R. (2016) Hearing Gestures and Drawing Sounds: Auditory and Multisensory Perception of Biological Movements, *Auditory Perception, Cognition, and Action Meeting (APCAM)*, Boston, Massachusetts, November 17, 2016 – Oral
13. **Thoret, E.**, Conan, S., Aramaki, M., Bringoux, L., Gondre, C., Velay, J. L., Ystad, S., Kronland-Martinet, R. (2015) When hearing biological movements reveals embodied motor properties: a new paradigm to study relations between gestures and sounds - *The Sensorimotor Theory of Perception and Consciousness: Developments and Open Questions* – ASSC Satellite Workshop, 4/5th July 2015, Paris, France – Poster
12. **Thoret, E.**, Aramaki, M., Bringoux L., Kronland-Martinet R., Ystad S. (2014). When acoustic stimuli turn visual circles into ellipses: sounds evoking accelerations modify visuo-motor coupling, *Abstract accepted for*

the 15th International Multisensory Research Forum (IMRF), Amsterdam, Jun. 11-14, 2014 – Poster

11. **Thoret, E.**, Aramaki, M., Kronland-Martinet, R., Velay, J. L., Ystad, S. (2014). Auditory Perception of Biological Movements: an evidence of cognitive specificities from sound synthesis, *Abstract accepted for the 15th International Multisensory Research Forum (IMRF)*, Amsterdam, Jun. 11-14, 2014 – Poster
10. **Thoret, E.**, Aramaki, M., Bourdin C., Bringoux L., Kronland-Martinet R., Ystad S. (2013). Synchronizing Gestures with Friction Sounds: Work in Progress, *Sound, Music and Motion, Proceedings of the 10th International Symposium on Computer Music Multidisciplinary Research (CMMR)*, 15-18 Oct. 2013, Marseille – Oral
9. Danna J., Velay J.L., Paz-Villagrán V., Capel A., Pétriz C., Gondre C., **Thoret E.**, Aramaki M., Ystad S., and Kronland-Martinet, R. (2013). Handwriting Movement Sonification for the Rehabilitation of Dysgraphia, *Sound, Music and Motion, Proceedings of the 10th International Symposium on Computer Music Multidisciplinary Research (CMMR)*, 15-18 Oct. 2013, Marseille – Oral
8. Conan, S., **Thoret, E.**, Gondre, C., Aramaki, M., Kronland-Martinet, R., Ystad, S. (2013). An Intuitive Synthesizer of Sustained Interaction Sounds. *Sound, Music and Motion, Proceedings of the 10th International Symposium on Computer Music Multidisciplinary Research (CMMR)*, 15-18 Oct., Marseille – Demonstration
7. **Thoret E.**, Aramaki M., Gondre C., Kronland-Martinet R., and Ystad S. (2013). Controlling a Non Linear Friction Model for Evocative Sound Synthesis Applications, *Proceedings of the 16th International Conference on Digital Audio Effects (DAFx)*, Maynooth, Ireland, Sept. 2013 – Oral. ISBN: 978-0956326775
6. Conan S., **Thoret E.**, Aramaki M., Derrien O., Gondre C., Kronland-Martinet R., Ystad S. (2013). Navigating in a Space of Synthesized Interactions-Sounds: Rubbing, Scratching and Rolling, *Proceedings of the 16th Conference on Digital Audio Effects (DAFx)*, Maynooth, Ireland, Sept. 2013 – Oral, *Best paper award in sound synthesis*. ISBN: 978-0956326775
5. Danna J., Paz-Villagran V., **Thoret E.**, Gondre C., Kronland-Martinet R., Capel A., Petroz C., Pierre P., Cazes O., Limozin A., Velay J.L. (2013). Sonifying handwriting movements as real-time auditory feedback for the rehabilitation of dysgraphia. *Abstract in Progress in Motor Control IX*, Montreal, July 13-16 – Poster
4. **Thoret E.**, Aramaki M., Kronland-Martinet R., Velay J.L., Ystad S. (2012). From Shape to Sound: sonification of two dimensional curves by reenactment of biological movements, *Music and Emotions, Proceedings of the 9th International Symposium on Computer Music Modeling and Retrieval (CMMR)*, 19-22 June, London, 2012 – Oral
3. Conan S., Aramaki M., Kronland-Martinet R., **Thoret E.**, Ystad S (2012). Perceptual differences between sounds produced by different continuous interactions, *Proceedings of Acoustics 2012*, 23-27 April Nantes, France, April 2012 – Poster. ISBN: 978-2-919340-01-9 – EAN: 9782919340019
2. **Thoret E.**, Aramaki M., Kronland-Martinet R., Velay J.L., Ystad S. (2012). Sonifying drawings: characterization of perceptual attributes of sounds produced by human gestures, *Proceedings of Acoustics 2012*, 23-27 April, Nantes, France, April 2012 – Oral. ISBN: 978-2-919340-01-9 - EAN: 9782919340019
1. **Thoret E.**, Aramaki M., Kronland-Martinet R., Velay J.L., Ystad S. (2011). Sonification of drawings by virtually reenacting biological movements, *Versatile Sound Models for Interaction in Audio-Graphic Virtual Environments: Control of Audio-graphic Sound Synthesis Satellite Workshop at the 14th International Conference on Digital Audio Effects (DAFx)*, Paris, 2011 – Oral

Talks (7)

7. **Thoret, E.** (2018) Perceptually inspired representations for the analysis of musical timbre. *CIRMMT Student Symposium 2018* CIRMMT, May 17, McGill University, Montreal

6. **Thoret, E.** (2018) Hearing Gestures and Drawing Sounds: Auditory Perception of Biological Movements. *Workshop on Gesture as a Language CIRMMT*, March 14, McGill University, Montreal
5. **Thoret, E.** (2018) Des représentations inspirées perceptivement pour l'analyse et la synthèse de signaux musicaux (Perceptually inspired representations for the analysis and synthesis of musical sounds), January 25, 2018 - GRAM - École de Technologie Supérieure (ETS), Montreal, *Weekly seminar*
4. **Thoret, E.**, Depalle, P., McAdams, S. (2017) Perceptually salient spectrotemporal modulations for musical instrument recognition *Berlin Interdisciplinary Workshop on Timbre*, January 12-13, Berlin, www.timbre2017.tu-berlin.de
3. **Thoret, E.** (2015) Voir des cercles et dessiner des ellipses : quand l'audition trompe la perception visuelle des mouvements biologiques (Seing Circles and Drawing ellipses: when sounds fool visual perception of biological movements) *Le son dans la vie. Observations, pratiques et expérimentations, prospectives*, Centre de Recherches Sémiotiques, Université de Limoges, April 2, 2015, Limoges
2. **Thoret, E.** (2015) Acoustic characterisation of relations between biological movements and auditory perception: applications to the control of sound synthesis and gesture learning, February 16, 2015, Belfast, Queen's University, School of Psychology, *Weekly seminar*
1. **Thoret, E.** (2014) Auditory perception of drawing movements: when motor cues shape auditory cognitive processes, *Legos days*, Ircam, March 18, 2014, Paris

National conferences (6)

6. **Thoret, E.** (2014) Quand des stimuli sonores transforment des cercles en ellipse : le couplage visuo-moteur est biaisé par des accélérations transmises par les sons. *9èmes Journées Jeunes Chercheurs en Audition, Acoustique musicale et Signal audio*, July 2-4, 2014, Lyon – Poster
5. Danna, J., Fontaine, M., Gondre, C., **Thoret, E.**, Aramaki, M., Kronland-Martinet, R., Ystad, S., Velay, J.-L. (2013). Sonifier le geste d'écriture peut-il faciliter son apprentissage ?, 15ème Congrès International de l'ACAPS, Grenoble, France, 29-31 Octobre 2013 – Poster
4. **Thoret, E.** (2012) Approche éactive des relations son/geste pour le contrôle de la synthèse sonore et le guidage. *8èmes Journées Jeunes Chercheurs en Audition, Acoustique musicale et Signal audio*, Dec. 5-7, 2012, Marseille – Poster
3. **Thoret, E.** (2012) Approche éactive des relations son/geste pour le contrôle de la synthèse sonore et le guidage. *2èmes Journées Perception Sonore - SFA*, 10–11 Dec. 2012, Marseille – Poster
2. Danna, J., Paz-Villagran, V., Velay, J.-L., Gondre, C., Kronland-Martinet, R., Ystad, S., Aramaki, M., **Thoret, E.**, Conan, S., Voinier, T., Omer, H., Torrèsani, B. (2012). Sonifier l'écriture : un outil pour le diagnostic et la remédiation de la dysgraphie, 11èmes Journée Scientifique du Centre de Référence des Troubles d'Apprentissage (CERTA)/RESODY, Marseille, May 25, 2012 – Oral Presentation
1. **Thoret, E.** (2012) Interactions gestes / son pour la réalité virtuelle et augmentée. *7èmes Journées Jeunes Chercheurs en Audition, Acoustique musicale et Signal audio*, Dec. 7-9, 2011, Rennes – Poster

Other communications (2)

2. Scientific support for the TV show *Electrons libres - Le secret d'un cri terrifiant* (Télé Québec) - November 03, 2017 <https://electronslibres.telequebec.tv/episodes/35122>

1. **Thoret, E.**, Terrien, S., Emiya, V., Verron, C. (2012). Qobuz à Marseille : rencontre avec quatre jeunes chercheurs acousticiens - <https://www.youtube.com/watch?v=YKWzAR0zzjk>