

## Tales of the Neural Tango!

A lecture and performance workshop to celebrate the art and science of music.

3:00 pm workshop - performance

Martha Summa-Chadwick, presenter and pianist

### **Music and Cognition**

**Brain plasticity of neural networks using music and rhythm.**

*Sonata in Eb, op. 31 no. 3*  
*Scherzo*

*Ludwig Van Beethoven*

**How music can be utilized for individuals with attention disorders**

*Waldszenen, op. 82*  
*Vogel als Prophet*  
*Abschied*

*Robert Schumann*

### **Music and Speech**

**Use of music as a therapeutic addition to speech techniques**

*Widmung*

*Schumann / Liszt*

### **Music and sensory processing**

*Le baiser de l'Enfant-Jésus (from the Vingt Regards*

*Olivier Messiaen*

INTERMISSION

### **Music and motor issues**

**Music and Therapeutic Instrument Musical Performance strategies**

*Fantastic Dances. Op. 2*  
*Allegro con fuoco*  
*Danse Lyrique*  
*Danse d'extase*

*Loris Tjeknavorian*

**Music and gait training**

*Tango dances*  
*Contrabajeando*  
*Invierno Porteño*  
*Milonga del Ángel*  
*La Muerte del Ángel*

*Astor Piazzolla*