

BRIAN CIACH

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# The Einstein Slide

for chamber orchestra

(2012)

full score



*The Einstein Slide* (2012)  
Addendum to *Collective Uncommon: Seven Orchestral Studies on Medical Oddities* (2010)

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**Winner of THE AMERICAN PRIZE in Composition—orchestral, professional division (2017-2018)**

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**Premiered by Alarm Will Sound at the 2012 Mizzou New Music Summer Festival, Missouri Theatre Centre for the Arts, Columbia Missouri**

Program Notes

*The Einstein Slide* is a short chamber concerto inspired by a medical slide of Albert Einstein's brain on display at the Mütter museum, a medical oddities museum in Philadelphia. Lucy Rorke-Adams, the neuropathologist who donated the slides to the museum, has found that Einstein's brain is remarkably youthful for a man aged 76. "The blood vessels are gorgeous", she says. To reflect this, the music is ever inspired and brilliant, undergoing constant shifts and a childlike exploration of material. Scientists have found that Einstein's brain was lacking a complete Sylvian fissure, a type of wall separating the parts of the brain responsible for mathematical ability, spatial reasoning and three-dimensional visualization. Some argue that the synergy of these diverse segments in Einstein's brain allowed him to think differently. *The Einstein Slide* evokes brain activity by swiftly shifting through different musical ideas. In my musical search for all things Einstein, I decided to begin the movement with a violin solo, an instrument that Einstein played. There is also the "musical equation" toward the middle of the movement, which is a musical representation of a mathematical formula in the form of a puzzle canon (see below).

**Einstein's Musical Equation: Puzzle Canon\***

Canon in seven parts at the unison, cancrizans, stretto, inversion, augmentation and octave

♩ = 88

The musical notation shows a single melodic line on a grand staff (treble and bass clefs) in common time (C). The piece begins with a piano (p) dynamic and a tempo of quarter note = 88. The melody consists of a sequence of notes: C4, D4, E4, F4, G4, A4, B4, C5, B4, A4, G4, F4, E4, D4, C4. Above the staff, seven instrument groups are listed with their respective parts: 7 pno, 6 fl, Eb cl, 5, 4 hn, via 2, bsn, tpt, 5 Bb cl, vc, 2 tbn, vln, and 3 ob, via 1. The notation ends with a double bar line and a repeat sign.

\* Realized on the following pages.

**Instrumentation:**

Flute

Oboe

E ♭ Clarinet

B ♭ Clarinet

Bassoon

F Horn

B ♭ Trumpet

Tenor Trombone

Percussion 1 (Large Tam Tam, Castenets, Low China Cymbal, Glockenspiel)

Percussion 2 (Tambourine, Concert Bass Drum, Medium Suspended Cymbal)

Piano

Violin I

Violin II

Viola

Violoncello

Contrabass (with C extension)

Commissioned by Alarm Will Sound for the 2012 Mizzou New Music Summer Festival  
Dedicated to the Mütter Museum: Of the College of Physicians of Philadelphia

SCORE IN C  
8 minutes in duration

# The Einstein Slide

(Chamber Concerto)

Inspired by a medical slide of Albert Einstein's brain found in the Mütter Museum in Philadelphia  
Winner of THE AMERICAN PRIZE in Composition--orchestral, professional division (2017-2018)

BRIAN CIACH  
(b. 1977)

Mysterious ♩ = 66

Flute

Oboe

E♭ Clarinet

B♭ Clarinet

Bassoon

F Horn

B♭ Trumpet

Trombone

Percussion 1

Percussion 2

Piano

(stopped with l.h. inside the piano)  
+ + + + simile  
*pp*  
una corda  
Ped. \* Ped. \*

Mysterious ♩ = 66

Violin 1

*molto sul tasto* *poco - a - poco ord.* *ord., solo, espressivo*  
*ppp* *p*

Violin 2

*molto sul tasto*  
*pp*

Viola

*molto sul tasto*  
*pp*

Violoncello

Contrabass (with C extension)

Fl

Ob

B♭ Cl

Bsn

Pno

Vln 1

Vln 2

Vla



Ethereal ♩ = 88

solo, dolce, freely expressive

Fl

Ob

B♭ Cl

Bsn

Perc 1

Pno

Vln 1

Vln 2

Vla

Vc

Cb

Ethereal ♩ = 88

Vln 1

Vln 2

Vla

Vc

Cb

8 3

Fl *mf*

B♭ Cl *solo, dolce, freely expressive*  
*p*

Vln 2

Vla *5*

Vc *6*

Cb *6* *gliss.*

10

Fl *p* *3* *mf* *tr*

E♭ Cl *solo, dolce, freely expressive*  
*p* *3* *mf* *b* *tr*

B♭ Cl *mf* *p* *3* *pp* *mf*

Vln 2

Vla

Vc

Cb







30 **D**

Ob *p* *pp* *p* *pp* *p* *pp* *p* *pp*

E♭ Cl *p*

B♭ Cl *p* *pp* *p* *pp* *p* *pp* *p* *pp*

Bsn *pp* *ppp*

Hn *ppp*

Tbn *pp* *ppp*

Pno *p*

℄

\*

32

Fl *mp* *mf* *f*

Ob *mp* *mf* *f*

E♭ Cl *mp* *mf* *f*

B♭ Cl *mp* *mf* *f*

34 ♩ = 168

B♭ Cl *mp* *mf* *solo*

Bsn *mp* *mf* *mp* *mf*

Hn *mp* *mf* *mp* *mf*

Tpt *mp* *mf* *mp* *mf*

Tbn *mp* *mf* *mp* *mf*

Perc 1 *mp* *mf* *mp* *mf*

Pno *mp* *mf* *mp* *mf*

℄

\*

℄

\*

**E**  
37 ♩. = 168

Fl  
Ob  
Eb Cl  
Bsn  
Tpt  
Pno  
Vln 1  
Vln 2  
Vla  
Vc  
Cb

*ff*  
*ff*  
*ff*  
*ff*  
*ff*  
*p*  
*pizz.*  
*p*  
*pizz.*  
*p*  
*pizz.*  
*p*  
*arco*  
*ff*

**E**  
♩. = 168









**G**  
♩ = 54  
cantabile

76  
Ob  
B♭ Cl  
Bsn  
Hn  
Tpt  
Tbn  
Vln 1  
Vln 2  
Vla  
Vc  
Cb

**G**  
sul tasto, cantabile  
pp  
cantabile  
pp  
mf  
pp  
mf  
pp  
mf  
pp  
mf  
pp  
mf  
pp  
mf  
pp  
mf  
pp

**Einstein's Musical Equation: Puzzle Canon\***

Canon in seven parts at the unison, cancrizans, stretto, inversion, augmentation and octave

♩ = 88

7 pno  
6 fl, E♭ cl  
4 bsn, tpt  
4 hn, vla  
5 B♭ cl, vc  
2 tbn, vln 1  
3 ob, vln 2

*p* *mp* *ff*

\* Realized on the following pages.



83  $\text{♩} = 88$

Ob *ppp* *p*

B♭ Cl *ppp*

Bsn *p* *mp* *p*

Hn *ppp*

Tpt *p* *mp* *p*

Tbn *ppp* *p* *mp*

97  $\text{♩} = 88$

Vln 1 *ppp* *p* *ord.* *mp*

Vln 2 *ppp* *ord.* *p*

Vla *ppp*

Vc *ppp*

111

Ob *mp* *p*

B♭ Cl *p*

Bsn *mp* *p*

Hn *mp* *p*

Tpt *mp* *p*

Tbn *mp* *p*

Vln 1 *mp* *p*

Vln 2 *mp* *p*

Vla *mp* *p*

Vc *mp* *p* *ord.* *p*



148

Fl *mp* *p* *pp*

Ob *p* *pp*

E♭ Cl *mp* *p*

B♭ Cl *mp* *p* *pp*

Bsn *mp* *p* *p*

Hn *mp* *p*

Tpt *mp* *p*

Tbn *mp* *p*

Pno *p*

Vln 1 *mp* *p* *pp* *strum pizz.*

Vln 2 *p* *pp* *pizz.*

Vla *mp* *p* *pp*

Vc *mp* *p*

*15<sup>th</sup>* *8<sup>th</sup>* *\*15<sup>th</sup>* *8<sup>th</sup>* *\**



**J**  
169 ♩ = 40 *accel.* ..... ♩ = 66

B♭ Cl

Hn

Pno  
*pp*  
 (stopped with l.h. inside the piano)  
 + + + + + *simile*  
*una corda*  
*Ped.* \* *Ped.* \* *Ped.* \*

**J**  
 ♩ = 40 *accel.* ..... ♩ = 66  
*solo, espressivo*

Vln 1  
*p* *mp* *mf*

Vln 2  
*molto sul tasto*  
*pp*

Vla  
*molto sul tasto*  
*pp*

173

Fl

B♭ Cl

Hn

Pno  
*pp*  
*Ped.* \* *Ped.* \*

Vln 1  
*rit.* .....  
*mp* *p*

Vln 2  
*p* *pp*

Vla  
*p* *pp*

K

176 ♩ = 54

Bsn *pp* *p* *pp*

Tbn *pp*

Pno *p* *mf* *p* *mp* *p* *mp* *p*

*tre corde*  
*Leò. \* Leò. \* Leò. \* Leò. \* Leò. \**

*solo, ord., molto legato e rubato*

K

♩ = 54

Vln 1 *pp* *ord.*

Vln 2 *pp* *ord.*

Vla *pp*

Vc *pp*

Cb *pp*

*gli altri*



179

Pno *p* *mf* *f*

*Leò. \* Leò. \* Leò. \* Leò. \* Leò. \**



182

L

Fl *p* *mp*

Ob *p* *mp*

E♭ Cl *p* *mp*

Bsn *p* *mp*

Pno *mp* *pp* *mp*

*Leò. \* Leò. \* Leò. \* Leò. \* Leò. \**

Vln 1 *pp* *mp*

Vln 2 *pp* *mp*

Vla *pp* *mp*

Vc *pp*







197

Ob *pp*

E♭ Cl *pp*

Bsn

Hn

Tpt

Tbn

Perc 1 *p* *pp*

Pno *mp*

Vln 1

Vln 2

Vla

Vc *pp* *mp*

Cb

201

Bsn

Perc 2 *pp*

Pno *ff* *p* *pp*

Vln 1

Vln 2

Vla

Vc *pp*

Cb

Concert Bass Drum  
wood sticks on rim and side  
(quasi clockwork)