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Periapsis

an Overture for Orchestra

Zachary C. Daniels

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Divisi Labs

Oklahoma City, Oklahoma
<https://divisilabs.com>

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Periapsis: The point at which an orbiting object is closest to the center of mass of the body it is orbiting. Any object at such a point is at its greatest orbital velocity.

Periapsis was composed in mid-March of 2022, and takes inspiration from the bold, innovative private Space Flight companies currently striving for greater heights. The piece was conceived while experimenting on the melodica and experimenting with semi-dissonant tone clusters while on the way to pick up his wife, Ashlie, from work. The beginning starts with an articulated rhythmic gesture in the trumpet that slowly transforms into a dissonant, piercing chord with all three trumpets playing in rhythmic unison, while maintaining moderate dissonances between themselves. As the rhythmic gestures continue throughout the piece, several melodies jump in and out of the texture, utilizing the full sound of an orchestra to create the tapestry of outer space itself, with the rhythmic gesture becoming the engine of our human ingenuity, driving us to the stars.

Zachary C Daniels is a Mexican-American composer and sound artist with an earned MM and DMA in Composition from the University of Oklahoma. His music is typically very energetic, drawing on aspects of minimalism and experimentalism to create driving pulses, striking melodies, and entertaining narrative arcs. In addition to composition, Zach is an expressive and energetic conductor, often conducting his own music at public performances. His primary instrument of choice is a split-decision between Double Bass and Cello. Zachary also runs Divisi Labs, a multi-faceted company with music engraving, transcription, publishing, and web development services as well as other creative endeavors. His music is available through his personal website, as well as JW Pepper.

Thank You for supporting new music. Please, if scheduling a performance, consider reaching out to me directly via my website to report a performance, ask any questions you may have, or with any other concerns. Alternatively, visit the link or QR code provided below to find up-to-date information, and report performances.

<https://zachdaniels.com/music/periapsis>



Instrumentation

Woodwinds

2 Flutes

2 Oboes

2 Clarinets

2 Bassoons

Brass

4 Horns in F

3 Bb Trumpets

(Principal doubles on D Trumpet)

2 Trombones

1 Bass Trombone

1 Tuba

Percussion

1 Timpanist (4 Drums)

2 Percussion

1 Piano

Strings

(11/10/8/8/8)

Periapsis

Zachary C Daniels

$\text{♩} = 160$

Flute 1
Flute 2
Oboe 1
Oboe 2
Clarinet in B \flat 1
Clarinet in B \flat 2
Bassoon 1
Bassoon 2
French Horn in F 1
French Horn in F 2
French Horn in F 3
French Horn in F 4
Trumpet in B \flat 1
Trumpet in B \flat 2
Trumpet in B \flat 3
Trombone 1
Trombone 2
Bass Trombone
Tuba
Timpani
Bass Drum
Clash Cymbal
Triangle
Piano
Violin I
Violin II
Viola
Violoncello
Violoncello
Double Bass

17 **A**

Musical score for measures 17-23. Instruments include Fl. 1, Fl. 2, Ob. 1, Ob. 2, Cl. in Bb 1, Cl. in Bb 2, Bsn 1, Bsn 2, and Timp. Dynamics include *mf* and *p*. A section marker 'A' is present above measure 17. The woodwinds play a rhythmic pattern of eighth notes, while the timpani has a roll in measure 17 and a soft *p* dynamic thereafter.

Musical score for measures 24-30. Instruments include Fl. 1, Fl. 2, Ob. 1, Ob. 2, Cl. in Bb 1, Cl. in Bb 2, Bsn 1, Bsn 2, Tbn. 1, Tbn. 2, B. Tbn., Timp., Vln II, Vla, Vc., and D. B. Dynamics include *mf*, *fp*, and *ff*. The woodwinds continue with eighth-note patterns. The brass section (Tbn., B. Tbn., Timp.) plays a series of chords with dynamics ranging from *fp* to *ff*. The strings (Vln II, Vla, Vc., D. B.) play a sustained chord with dynamics from *fp* to *ff*. The double bass (D. B.) has a *pizz.* (pizzicato) marking in measure 24.

31 B

Fl. 1 *ff*

Fl. 2 *ff* *f* *f*

Ob. 1 *ff*

Ob. 2 *ff*

Cl. in Bb 1 *ff* *f* *f*

Cl. in Bb 2 *ff*

Bsn 1 *f*

Bsn 2 *ff*

Tpt in Bb 1 *pp* *ff* To Tpt in D

Tpt in Bb 2 *pp* *ff*

Tpt in Bb 3 *pp* *ff*

Tbn. 1 *ff* *ff*

Tbn. 2 *ff* *ff*

B. Tbn. *ff* *ff*

Timp. *ff*

Vln I *ff* *mf*

Vln II *ff* *mf*

Vla. *ff* *ff* *mf*

Vc. *ff* *ff*

D. B. *ff* *ff*

39

Bsn 1

Bsn 2

F. Hn in F 1

F. Hn in F 2

F. Hn in F 3

Tbn. 1

Tbn. 2

Tba

Timp.

Tri.

Vln I

Vln II

Vla

Vc.

D. B.

mf

f

p

mf

f

pizz.

f

pizz.

f

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46 **C**

Fl. 1 *f*

Fl. 2 *f*

Ob. 1 *f*

Cl. in Bb 1 *f*

Bsn 1 *f*

Bsn 2 *f*

F. Hn in F 1 *mf*

F. Hn in F 2 *mf*

F. Hn in F 3 *mf*

Tbn. 1 *p*

Tbn. 2 *p*

B. Tbn. *p*

Tbn. *p*

Timp.

Tri.

Vln I

Vln II

Vla

Vc. *mf*

D. B. *mf*

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53

Fl. 1

Fl. 2

Ob. 1

Cl. in Bb 1

Bsn 1

Bsn 2

F. Hn in F 1

F. Hn in F 2

F. Hn in F 3

B. Tbn.

Tba

Vln I

Vln II

Vla

Vc.

D. B.

mf

f

arco

f

arco

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D

60

Cl. in Bb 1

Bsn 1

Bsn 2

F. Hn in F 1

F. Hn in F 2

F. Hn in F 3

F. Hn in F 4

B. Tbn.

Tba

Vln I

Vln II

Vla

Vc.

D. B.

f

mf

70

Cl. in Bb 1

Cl. in Bb 2

Bsn 1

Bsn 2

F. Hn in F 1

F. Hn in F 2

F. Hn in F 3

F. Hn in F 4

Vln I

Vln II

Vla

Vc.

D. B.

mf

This page of the musical score for 'Periapsis' contains measures 87 through 92. The instrumentation includes:

- Flutes 1 and 2 (Fl. 1, Fl. 2)
- Oboes 1 and 2 (Ob. 1, Ob. 2)
- Four French Horns (F. Hn in F 1, 2, 3, 4)
- Trumpets in D (Tpt in D)
- Trumpets in Bb (Tpt in Bb 2, 3)
- Two Trombones (Tbn. 1, 2)
- Violins I and II (Vln I, Vln II)
- Viola (Vla)
- Violoncello (Vc.)
- Double Bass (D. B.)

The score features a variety of musical notations, including eighth and sixteenth notes, rests, and dynamic markings such as *f* (forte) and *ff* (fortissimo). A large, semi-transparent watermark reading 'PREVIEW ONLY' is overlaid across the entire page.

F

FL. 1

FL. 2

Ob. 1

Ob. 2

Cl. in Bb 1

Bsn 1

F. Hn in F 1

F. Hn in F 2

F. Hn in F 3

F. Hn in F 4

Tpt in D

Tpt in Bb 2

Tpt in Bb 3

Tbn. 1

Tbn. 2

B. Tbn.

Tba

Timp.

B. Dr.

Cl. Cym.

Vln I

Vln II

Vla

Vc.

D. B.

PREVIEW ONLY

mf

ff

fp

tr

pizz.

arco

To Tpt in Bb

Musical score for 'Periapsis' page 12, measures 102-107. The score includes parts for Flutes 1 & 2, Oboes 1 & 2, Clarinets in Bb 1 & 2, Bassoons 1 & 2, Cymbals, Violin, Viola, Violoncello, and Double Bass. Dynamics include *mf* and *pizz.* A large 'PREVIEW ONLY' watermark is overlaid on the score.

PREVIEW ONLY

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109

Fl. 1

Fl. 2

Ob. 1

Ob. 2

Cl. in B \flat 1

Cl. in B \flat 2

Bsn 1

Bsn 2

Tpt in B \flat 1

Tpt in B \flat 2

Tpt in B \flat 3

Tbn. 1

Tbn. 2

B. Tbn.

Tba

Timp.

Vln I

Vln II

Vla

Vc.

D. B.

117

Fl. 1

Fl. 2

Ob. 1

Ob. 2

Cl. in B \flat 1

Cl. in B \flat 2

Bsn 1

Bsn 2

Tpt in B \flat 1

Tpt in B \flat 2

Tpt in B \flat 3

Tbn. 1

Tbn. 2

B. Tbn.

Tba

Timp.

Vln I

Vln II

Vla

Vc.

D. B.

f

f

To Tpt in D

mf

mf

mf

PREVIEW ONLY

127

Fl. 1

Fl. 2

Ob. 1

Cl. in Bb 1

Cl. in Bb 2

Bsn 1

Bsn 2

Vln I

Vln II

Vla

Vc.

D. B.

p
con sord.

p

PREVIEW ONLY

135

Fl. 1

Fl. 2

Cl. in Bb 1

Cl. in Bb 2

Bsn 1

Bsn 2

F. Hn in F 1

F. Hn in F 2

Vln I

Vln II

Vla

Vc.

D. B.

mf

mf

f

mf

senza sord.

mf
senza sord.

f
arco

mf

mf

PREVIEW ONLY

H

143

Bsn 1

Bsn 2

F. Hn in F 1

F. Hn in F 2

F. Hn in F 3

F. Hn in F 4

Tpt in D

Tpt in Bb 2

Tpt in Bb 3

Tbn. 1

Tbn. 2

B. Tbn.

Tba

Timp.

B. Dr.

Cl. Cym.

Vln I

Vln II

Vla

Vc.

D. B.

f

ff

mf

PREVIEW ONLY

152

Fl. 1

Fl. 2

Cl. in Bb 1

Bsn 1

Bsn 2

F. Hn in F 1

F. Hn in F 2

F. Hn in F 3

F. Hn in F 4

Tpt in Bb 2

Tpt in Bb 3

Tbn. 1

Tbn. 2

B. Tbn.

Tba

Vln I

Vln II

Vla

Vc.

D. B.

ffpp *ff* *ffpp* *ff* *ffpp* *ff*

f *f* *f* *f* *f* *f*

mp *f* *mp* *f* *mp* *f*

mp *f* *mp* *f* *mp* *f*

ffpp *ff* *ffpp* *ff* *ffpp* *ff*

ffpp *ff* *ffpp* *ff* *ffpp* *ff*

ffpp *ff* *ffpp* *ff* *ffpp* *ff*

ffpp *ff* *ffpp* *ff* *ffpp* *ff*

pizz. *f* *pizz.* *f* *pizz.* *f*

f *f* *f* *f* *f* *f*

PREVIEW ONLY

163

I

Fl. 1

Fl. 2

Cl. in Bb 1

Cl. in Bb 2

Bsn 1

Bsn 2

F. Hn in F 1

F. Hn in F 2

F. Hn in F 3

F. Hn in F 4

Tpt in D

Tpt in Bb 2

Tpt in Bb 3

Tbn. 1

Tbn. 2

B. Tbn.

Tba

Timp.

B. Dr.

Vln I

Vln II

Vla

Vc.

D. B.

ff

p

f

ffpp

mp

f

arco

PREVIEW ONLY

J

Musical score for Percussion and Strings, measures 168-172. The score includes parts for F. Hn in F 3, F. Hn in F 4, Tpt in D, Tpt in Bb 2, Tpt in Bb 3, Tbn. 1, Tbn. 2, B. Tbn., Tba, Timp., B. Dr., Vln I, Vln II, Vla, Vc., and D. B. The key signature is two sharps (F# and C#). The time signature changes from 10/8 to 7/8 at measure 170. A 'J' rehearsal mark is placed above measure 168. The score features various rhythmic patterns, including eighth and sixteenth notes, and rests. Dynamics such as *ff* are indicated. A large, semi-transparent watermark 'PREVIEW ONLY' is overlaid across the score.

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K

174

Fl. 1

Fl. 2

Ob. 1

Ob. 2

Cl. in Bb 1

Cl. in Bb 2

Bsn 1

Bsn 2

F. Hn in F 1

F. Hn in F 2

F. Hn in F 3

F. Hn in F 4

Tpt in D

Tpt in Bb 2

Tpt in Bb 3

Tbn. 1

Tbn. 2

B. Tbn.

Tba

Timp.

Cl. Cym.

Tri.

Vln I

Vln II

Vla

Vc.

D. B.

mf

f

ffp

sffz

p

tr

mf

f

ff

f

f

p

mf

pizz.

mf

pizz.

mf

pizz.

mf

To Tpt in Bb

This musical score page, numbered 22, is for the piece 'Periapsis'. It features a large, diagonal watermark reading 'PREVIEW ONLY'. The score is divided into two systems. The first system includes woodwind parts for Flute 1 & 2, Oboe 1 & 2, Clarinet in Bb 1 & 2, Bassoon 1 & 2, and Horns in F 1-4. The second system includes brass parts for Trumpet in Bb 2 & 3, Trombone 1 & 2, Baritone Trombone, and Tuba, as well as percussion parts for Timpani, Triangle, and Cymbals. The string section at the bottom includes Violin I & II, Viola, Violoncello, and Double Bass. The score contains various musical notations such as dynamics (ffp, sffz, f, fp), articulation (accents, slurs), and performance instructions like 'arco' for strings. The key signature is three sharps (F#, C#, G#) and the time signature is 7/8.

188

Fl. 1

Fl. 2

Ob. 1

Ob. 2

Cl. in Bb 1

Cl. in Bb 2

Bsn 1

Bsn 2

F. Hn in F 4

Tpt in Bb 1

Tpt in Bb 2

Tpt in Bb 3

Tbn. 1

Tbn. 2

B. Tbn.

Tba.

Timp.

Vln I

Vln II

Vla

Vc.

D. B.

ff

fp

mf

f

pp

pp

pp

pp

pp

pizz.

arco

L

To Tpt in D

Musical score for *Periapsis*, page 25. The score is for a full orchestra and includes the following parts and dynamics:

- Flutes (Fl. 1, Fl. 2):** *ff* (fortissimo)
- Oboes (Ob. 1, Ob. 2):** *ff*
- Clarinets (Cl. in Bb 1, Cl. in Bb 2):** *ff*
- Bassoons (Bsn 1, Bsn 2):** *ff*, *fp* (piano fortissimo), *f* (forte)
- French Horns (F. Hn in F 1-4):** *ff*
- Trumpets (Tpt in D, Tpt in Bb 2, Tpt in Bb 3):** *ff*
- Trombones (Tbn. 1, Tbn. 2, B. Tbn.):** *fp*, *ff*
- Tuba (Tba):** *fp*, *ff*
- Timpani (Timp.):** *fp*, *ff*
- Snare Drum (B. Dr.):** *fp*, *ff*
- Cymbals (Cl. Cym.):** *f*
- Violins (Vln I, Vln II):** *ff*
- Viola (Vla):** *ff*
- Violoncello (Vc.):** *ff*, *pizz.* (pizzicato), *arco* (arco), *f*
- Double Bass (D. B.):** *fp*, *ff*

212

Fl. 1

Fl. 2

Ob. 1

Ob. 2

Cl. in Bb 1

Cl. in Bb 2

Bsn 1

Bsn 2

F. Hn in F 1

F. Hn in F 2

F. Hn in F 3

F. Hn in F 4

Tpt in D

Tpt in Bb 2

Tpt in Bb 3

Tbn. 1

Tbn. 2

B. Tbn.

Tba

Timp.

Cl. Cym.

Vln I

Vln II

Vla

Vc.

D. B.

PREVIEW ONLY

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